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Electrical Engineering - Electrical Transformer Components

2 - 3 hrs 40,079 learners

You Will Learn How To

- Identify all of an electrical transformer’s main compone...
- Explain how a Buchholz relay works
- Describe how oil level measurement works Read More

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Diploma
engineering

Diploma in Electrical Studies

11% complete

You Will Learn How To

- Discuss the significance of electrical trade in today's ...
- Describe the basic electrical wiring system in residenti...
- State the hazards involved in working with electric powe...

- List the various types of electrical device b... Read More

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engineering

Trigonometry in Electrical Engineering

5-6 hrs 2,695 learners

You Will Learn How To

- Define trigonometry
- Recall the Pythagorean theorem
- Identify the various types of triangles Read More

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education

Electrical Engineering in Theory

3-4 hrs 2,310 learners

You Will Learn How To

- Recall the fundamentals of electricity and its significa...
- Explain DC networks, network theorems, and network diagr...
- Analyze single-phase AC circuits for RMS value, form fac...
- Explain the basic principles of the operation... Read More

More Info Start Learning
Certificate
engineering

Electrical Measuring Instrumentation

3-4 hrs 3,199 learners

You Will Learn How To

- Categorize electrical measuring instruments
- Explain how to repair such instruments
- Recognize the measurement of electric resista... Read More

More Info Start Learning

Diploma
engineering

Diploma in Electrical Technology

10-15 hrs 4,226 learners

You Will Learn How To

- Describe the basic concepts of magnetism and distinguish...
- Define electromagnetism and analyze the various ways to ...
- Discuss the fundamentals of electricity and define the b...
- Identify circuit parameters and explain the b... Read More

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engineering

Introduction to Basic Electrical Drawings and Test Equipment

2 - 3 hrs 52,329 learners

You Will Learn How To

- List the plans and drawings that are included in electri...
- Describe the various terms associated with electrical dr...
- Discuss the drawing layout, the common drafti... Read More

More Info Start Learning
Diploma
engineering

Advanced Diploma in Basics of Electrical Technology and Circuit Analysis

15-20 hrs 7,808 learners

You Will Learn How To

- Identify different types of resistors and their applicat...
- Discuss the mechanism and prevention of electric shocks
- Evaluate the process of finding the unknown r... Read More

More Info Start Learning
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education

Understanding Basic Electricity

2 - 3 hrs 21,159 learners

You Will Learn How To

- Recognize the relationship between current, resistance, ...
- State Ohm’s Law and how it applies to the direct current...
- Evaluate the current, voltage, and resistance of a DC ci...
- Explain Kirchhoff’s current and voltage laws Read More

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Certificate
engineering

Guide to Transformer Maintenance

2 - 3 hrs 849 learners

You Will Learn How To

- Identify all parts of a power transformer
- Describe the function of each transformer part
- Explain how a transformer's parts are connected to carry...
- Recognize when transformer parts are faulty Read More

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Certificate
engineering

Introduction to Marine Electrical

4-5 hrs 3,994 learners

You Will Learn How To

- Explain the standard symbols and units used in electroni...
- Discuss the basic science behind electricity
- Describe electromotive force (EMF) and electr... Read More

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engineering

NFPA 70E (2024) - Navigating Workplace Electrical Safety & Essential Updates

3-4 hrs 1,368 learners

You Will Learn How To

- Define the NFPA 70 series and the standards present in t...
- Recognize the types of premises and installations that a...
- Indicate the major responsibilities of employ... Read More

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Certificate
engineering

Maintenance and Repair of Marine Electrical Equipment

4-5 hrs 3,057 learners

You Will Learn How To

- Explain the methodology of electrical maintenance
- Discuss the maintenance of switchboards
- Analyze the detection of an electric malfunct... Read More

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engineering

Diploma in Power System Protection - An Introduction

5-6 hrs 3,095 learners

You Will Learn How To

- Explain the different types of faults in a power system ...
- Contrast the different types of relays based on their co...
- Outline the application of the different type... Read More

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Certificate
engineering

Fundamentals of Electrical Three-Phase Power Transformers

4-5 hrs 2,315 learners

You Will Learn How To

- Explain the working principle of a power transformer
- Distinguish between ideal and real transformers
- Explain how the losses in a real transformer ... Read More

More Info Start Learning
Diploma
engineering

Diploma in Marine Electrical

20-30 hrs 6,186 learners

You Will Learn How To

- Explain the standard symbols and units used in electroni...
- Describe electro-motive force (EMF) and electric current
- Outline the factors affecting capacitance value
- Define the concepts of resistance, conductor,... Read More

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engineering

Diploma in Solar Energy Engineering

10-15 hrs 21,776 learners

You Will Learn How To

- Discuss the different available means of harnessing sola...
- Describe the devices commonly used for solar energy coll...
- Explain how solar radiation reaches the surfa... Read More

More Info Start Learning
Certificate
engineering

Introduction to Electrical Technology

5-6 hrs 4,580 learners

You Will Learn How To

- Describe how to safely lift and shift equipment

- Discuss the mechanism and prevention of electric shocks
- Analyze different artificial respiration meth... Read More

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Certificate
engineering

Parallel Circuit Rules and Ohm's Law

2 - 3 hrs 1,874 learners

You Will Learn How To

- State the four parallel circuit rules
- Describe the differences between parallel and series cir...
- Solve for total resistance in a parallel circ... Read More

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Certificate
engineering

AC Circuit Analysis: The Fundamentals

2 - 3 hrs 1,337 learners

You Will Learn How To

- Distinguish between AC and DC circuits
- Explain why AC currents are used in the transmission of ...
- Compute the RMS value of the voltage and curr... Read More

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Frequently Asked Questions

What Are Available Online Course Categories?

Top 21 - 40 diploma electrical engineering courses

Search instead for: diplome electrical engineering

Certificate
engineering

Series Parallel Circuits and Ohm's Law

2 - 3 hrs 2,748 learners

You Will Learn How To

- State the four series circuit rules
- Recall the four parallel circuit rules
- Describe the differences between series circu... Read More

More Info Start Learning
Certificate
engineering

Electric Power Metering - Single and 3-Phase Systems

3-4 hrs 2,434 learners

You Will Learn How To

- Define power and energy
- Summarize how to calculate power consumed by an AC circu...
- Describe phasors and their polar and rectangu... Read More

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Certificate
engineering

Essentials of Electrical Safety

2 - 3 hrs 8,251 learners

You Will Learn How To

- Identify the effects of electric current on the human bo...
- List the general safety rules for working with electrici...
- Describe the available features of direct and alternatin...
- Explain the relationship between voltage, cur... Read More

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engineering

Marine Electronics - Principles of Electricity and Circuit Parameters

3-4 hrs 1,426 learners

You Will Learn How To

- Explain the standard symbols and units used in electroni...
- Discuss the basic science behind electricity
- Describe Electro-Motive Force (EMF) and elect... Read More

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education

Introduction to Electrical Maintenance

4-5 hrs 12,342 learners

You Will Learn How To

- Review the process to check or measure air gap dimension...
- List the classification of electrical insulation based o...
- Explain the difference between aligning coupl... Read More

More Info Start Learning
Certificate
engineering

Electrical Technology - Basic Laws and Single Phase AC Circuits

4-5 hrs 1,132 learners

You Will Learn How To

- Define Ohm's law

- Analyze Kirchoff's voltage law and Kirchoff's current la...
- Evaluate the process of finding the unknown r... Read More

More Info Start Learning
Diploma
engineering

Diploma in Engineering Fundamentals of Electric Vehicles

15-20 hrs 10,708 learners

You Will Learn How To

- Define Ohm’s law and Kirchhoff's first and second law
- Calculate torque inside a PMDC motor
- Understand the role of magnetic flux inside a... Read More

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Certificate
engineering

Comprehensive Guide to Portable Appliance Testing

2 - 3 hrs 2,331 learners

You Will Learn How To

- Define ‘portable appliance testing’ (PAT)
- Summarise the purpose and importance of portable applian...
- Analyse the relationships between electrical ... Read More

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Certificate
engineering

Per Unit Analysis; Single and 3-Phase Systems

6-10 hrs 435 learners

You Will Learn How To

- Describe per-unit and per-phase analysis of power system...
- Outline the normalization process for per unit analysis ...
- Estimate base values of systems including pow... Read More

More Info Start Learning

Certificate
engineering

Electrical Fundamentals

5-6 hrs 7,919 learners

You Will Learn How To

- Define the key terms and formulae of electrical theory
- Analyze the key circuit parameters of resistance, capaci...
- Explain the basic laws and effects of electric current
- Describe the workings of DC circuits in both ... Read More

More Info Start Learning
Diploma
engineering

Advanced Diploma in Principles of Industrial Engineering

20-30 hrs 4,685 learners

You Will Learn How To

- Outline the roles of industrial engineering
- Analyze the importance of a healthy organizational cultu...
- Analyze the required methods of site selectio... Read More

More Info Start Learning
Certificate
engineering

Symmetrical Components in Three-Phase Systems

2 - 3 hrs 737 learners

You Will Learn How To

- Explain Fortescue's theory of symmetrical components
- Distinguish the notation used to represent the phases an...
- Identify an unbalanced and a balanced three-p... Read More

More Info Start Learning
Diploma
Information Technology

Diploma in Engineering Drawing and Computer Graphics

10-15 hrs 8,283 learners

You Will Learn How To

- List the drawing instruments and accessories needed for ...
- Describe technical drawing
- Evaluate dimensions using angles and their fe... Read More

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Diploma
engineering

Diploma in Automotive Systems Training

6-10 hrs 5,457 learners

You Will Learn How To

- Outline the components of the automobile chassis system ...
- Explain the operating principles of a compression igniti...
- List the components and requirements for desi... Read More

More Info Start Learning
Diploma
engineering

Advanced Diploma in Basic Electrical Circuits

10-15 hrs 6,424 learners

You Will Learn How To

- Identify the basic circuit elements and their applicatio...
- Discuss the various properties of resistors, capacitors,...
- Discuss the mesh and nodal analysis of variou... Read More

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Certificate
engineering

Design of Electric Vehicle Batteries

6-10 hrs 6,356 learners

You Will Learn How To

- Compute charge-discharge cycles of an electric vehicle's...
- Explain the battery capacity of electric vehicles
- Discuss the concept of depth of discharge Read More

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Diploma
engineering

Diploma in Soil and Water Conservation Engineering

10-15 hrs 5,002 learners

You Will Learn How To

- Explain the fundamentals of soil erosion processes
- Discuss soil conservation measures in detail
- Describe how to utilize the available data fo... Read More

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Certificate
engineering

Introduction to the Electrical Trade

2 - 3 hrs 52,103 learners

You Will Learn How To

- Outline the basics of electrical wiring systems
- Identify the job requirements of the electrical trade
- Describe the effects of an electric shock Read More

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Certificate
education

Engineering Calculus Simplified (Derivatives)

3-4 hrs 719 learners

You Will Learn How To

- Define functions and limits
- Compare graphically the sin function with its derivative

- Explain the Cartesian coordinates system Read More

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Certificate
engineering

Primer on Electrical Transducers

4-5 hrs 393 learners

You Will Learn How To

- Analyze the characteristics of transducers
- Define temperature transducers
- Recognize a resistive strain gauge
- Define the linear variable differential trans... Read More

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Top 41 - 60 diploma electrical engineering courses

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engineering

Diploma in Structural Engineering and Construction Site Safety

6-10 hrs 22,189 learners

You Will Learn How To

- Explain slab centring, beam reinforcements, and beam arr...
- Describe the processes used in slab reinforcements
- Discuss the systems for staircase placement, ... Read More

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Diploma
engineering

Advanced Diploma in Principles of Engineering System Design

15-20 hrs 3,542 learners

You Will Learn How To

- Explain a systems engineering plan for a project
- Compare the applicability of any proposed process strate...
- Arrange the most essential systems engineerin... Read More

More Info Start Learning
Certificate
engineering

Introduction to Electrical Wiring Systems

2 - 3 hrs 44,550 learners

You Will Learn How To

- State the uses of electrical device boxes
- Discuss the terms associated with device boxes
- Apply the steps involved in making a 90-degre... Read More

More Info Start Learning
Diploma
engineering

Diploma in Mechatronics

10-15 hrs 21,160 learners

You Will Learn How To

- State the basic components and examples of mechatronic s...
- Outline the laws and key components of electrical circui...
- Discuss the principles of semiconductor devices
- Distinguish between sensors and transducers Read More

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Certificate
engineering

An Introduction to Solar Energy Engineering

4-5 hrs 6,830 learners

You Will Learn How To

- Recall the different ways of harnessing solar energy
- Describe the devices commonly used for solar energy coll...
- Explain how solar radiation reaches the surfa... Read More

More Info Start Learning
Diploma
business

Diploma in Principles of Industrial Engineering

10-15 hrs 6,867 learners

You Will Learn How To

- Define the principle of industrial engineering
- Discuss the functions and tools of industrial engineerin...
- Explain the organizational structure of indus... Read More

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to

Electrical Engineering - Electrical Transformer Components

Learn about electrical transformer construction and components with this free online Electrical Engineering course!
This free online Electrical Engineering course will teach you about electrical transformers, why we use them, and the features and functionality of their main components. Electrical transformers are an essential component in any electrical distribution system and are vital for proper energy transmission through an electrical grid. This free course uses detailed 3D models to teach you about an electrical transformers functions and components.

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In This Free Course, You Will Learn How To

- Identify all of an electrical transf...
- Explain how a Buchholz relay works...
- Describe how oil level measurement w...
- Describe how transformer temperature...

View All Learning Outcomes
Course Modules
Course Description
Alison Certificates

Electrical transformers are a common site in any electrical distribution system. In order to understand how power is transmitted through an electrical grid, you will need to learn more about transformers. This free online course introduces you to all of an electrical transformer’s main components (core, windings etc.). The course shows you how a Buchholz relay works. You will learn about oil level measurements and how transformer temperature measurement works. The course then describes how silica gel breathers and tap changers work (on and off load).

This course will give you all the information you need to know about electrical transformers and can also be used later as a refresher course. Its an ideal course for anyone working/training in an electrical engineering or power engineering industry. Interactive 3D models are used extensively to show you exactly how each of the transformer parts work. The course is packed with 2D images, 2D animations and 3D animations. Written content has been read aloud so that you can 'learn on the go' without needing to watch the screen constantly. So, why wait? Start the course today and gain valuable knowledge on how electrical transformer components work!

Start Course Now
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You learned 2 days this month

2 days more than last month

9 mins

Total Time Learning

26th Jul

|

6 mins

Best Learning Day

Average number of hours you learn on days of the week

Fridays

are your best day

Sunday

you study the least
Want to make your learnin

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- **27,169,912** Learners
- **6,244,700** Certificates & Diplomas Earned

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Infection Control in Health Care

3-4 hrs 11,260 learners

You Will Learn How To

- Define infectious diseases and various types of infectio...
- List the common pathways of transmission in healthcare s...
- Identify the core principles underlying effective infect...

- Describe the correct technique for handwashin... Read More

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Safeguarding Children and Vulnerable Adults

2 - 3 hrs 17,093 learners

You Will Learn How To

- Discuss the need for safeguarding children and vulnerabl...
- Recognize various signs of abuse in children and vulnera...
- Distinguish between different types of child ... Read More

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education

Caregiver Support Services Training - Preventing the Spread of Infection

2 - 3 hrs 32,664 learners

You Will Learn How To

- Explain the basic tips for safe care
- Discuss an overview of pathogens, bacteria, and viruses
- Describe the ways that bacteria and viruses a... Read More

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Fundamentals of Domestic Violence and Abuse

4-5 hrs 50,518 learners

You Will Learn How To

- Explain the concept of domestic violence and abuse
- Discuss the risk involved in domestic violence
- Outline different types of domestic violence Read More

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Understanding Child Development and Disabilities

2 - 3 hrs 27,639 learners

You Will Learn How To

- Define what is meant by child development
- List the factors that impact child development
- Explain how adults can provide valuable care ... Read More

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Lifeguard Training Fundamentals

2 - 3 hrs 12,838 learners

You Will Learn How To

- Define the characteristics of a professional lifeguard
- List the duties of a professional lifeguard
- Distinguish between a person in distress and a person dr...
- Describe the effective observation skills tha... Read More

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Comprehensive Guide to Defensive Driving

2 - 3 hrs 4,804 learners

You Will Learn How To

- Define the concept of defensive driving and its signific...
- Discuss the concept of hazard perception and risk assess...
- Indicate the factors that can affect a driver... Read More

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Hand Hygiene Steps, Practices and Strategies

3-4 hrs 444 learners

You Will Learn How To

- Describe Describe the importance of hand hygiene in both...
- Explain the various types of hand hygiene practices and ...
- Classify the consequences of poor hand hygien... Read More

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Fundamentals of RBT Certification Exam - Behavior & Crisis Management

3-4 hrs 7,847 learners

You Will Learn How To

- List the important skills and terms to be known about th...
- Explain the role of an RBT in ensuring well-being of chi...
- Indicate various strategies to prepare for th... Read More

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Autism Spectrum Disorder in Early Childhood

3-4 hrs 18,808 learners

You Will Learn How To

- Explain the epidemiology of autism
- Outline the development skills and characteristics of ch...
- Summarize body and object use skills of child... Read More

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Defensive Driving - Essential Principles & Practices

3-4 hrs 42,353 learners

You Will Learn How To

- Identify various causes of road traffic accidents
- Classify different types of drivers
- Indicate the necessary characteristics that m... Read More

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education

Working with Students with Special Educational Needs

2 - 3 hrs 173,068 learners

You Will Learn How To

- Describe the fundamentals of special education
- Outline the most common disabilities encountered in the ...
- Outline a basic individual education plan (IE... Read More

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Good Clinical Practice - ICH Guidelines E6 R2

3-4 hrs 11,798 learners

You Will Learn How To

- Identify the role of ICH and the duties of its working g...
- Discuss GCP requirements regarding conducting a clinical...
- Evaluate the team configuration of IECs and I... Read More

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Childcare and EYFS

2 - 3 hrs 87,403 learners

You Will Learn How To

- Solve potential hazards at home and learn to prevent out...
- Classify the various signs of abuse and neglect

- Define Early Years Foundation Stage (EYFS) and explain t...
- Identify the main points that help close the ... Read More

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Most Popular Teaching & Academics Courses

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Hydrogen Sulphide Safety Training

2 - 3 hrs 614 learners

You Will Learn How To

- Identify the physical and chemical properties of hydroge...
- Recognise sources of H2S exposure in different workplace...
- Evaluate the risks associated with the exposu... Read More

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Safe Practices for Working at Height

2 - 3 hrs 461 learners

You Will Learn How To

- Define the United Kingdom WAHR 2005 regulations
- List the potential hazards and risks of working at heigh...
- Recognise the steps to develop a risk assessm... Read More

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OSHA Essentials - Forklifter Operations & Safety

3-4 hrs 5,428 learners

You Will Learn How To

- Classify different types of forklifts according to the f...

- Explain a forklift's stability triangle, and load centre...
- Discuss factors determining the forklift's st... Read More

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education

Anger Management: A Guide to Emotional Regulation and Conflict Resolution

3-4 hrs 3,128 learners

You Will Learn How To

- Identify the effects of anger on both the body and mind
- Outline personal triggers and stressors that lead to ang...
- Define anger journaling and its use in identi... Read More

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business

Environmental Management and Legal Compliance

2 - 3 hrs 3,498 learners

You Will Learn How To

- Define ‘global warming’ and ‘climate change’
- Describe the role of industries and businesses in drivin...
- Discuss those industries that are contributin... Read More

More Info Start Learning
Certificate
education

Childcare and Young People Development

2 - 3 hrs 20,074 learners

You Will Learn How To

- Define and describe in detail childcare with all its ele...
- Recognise the key personal and professional features nee...
- Discuss the development process in children a... Read More

More Info Start Learning
Certificate
education

Child Protection and Welfare

3-4 hrs 5,226 learners

You Will Learn How To

- Describe the importance and the need for child protectio...
- Identify different types of child abuse, including physi...
- Recognise signs and symptoms of child abuse and neglect
- Evaluate the role of education, health profes... Read More

More Info Start Learning
Certificate
education

Montessori Teaching - Fundamental Concepts & Principles

2 - 3 hrs 53,222 learners

You Will Learn How To

- Describe the historical context of early childhood educa...
- Discuss Dr Maria Montessori's contributions to ECE and t...
- Indicate the theories of childhood developmen... Read More

More Info Start Learning
Certificate
education

Phlebotomy, Venipuncture and Specimen Handling

2 - 3 hrs 4,936 learners

You Will Learn How To

- Define the scope and fundamental practices of phlebotomy...
- Identify various blood collection tubes, additives, and ...
- Assess patient conditions and choose appropri... Read More

More Info Start Learning
Certificate
education

Phlebotomist Training Course

2 - 3 hrs 93,563 learners

You Will Learn How To

- Summarize the knowledge, skills and guidelines needed fo...
- Identify the primary responsibilities of a phlebotomist ...
- Recall medical terminology that involves drawing blood f...
- Discuss infection control, safety standards a... Read More

More Info Start Learning
Certificate
education

Dog Training Careers - Become a Professional Dog Trainer

2 - 3 hrs 14,363 learners

You Will Learn How To

- Identify what to include in a confirmation agreement let...
- Recall what to include during a dog training consultatio...
- Explain what to do if you forget to tell your... Read More

More Info Start Learning
Certificate
education

Working as a Teaching Assistant

3-4 hrs 14,573 learners

You Will Learn How To

- Define and list the characteristics of a teaching assist...
- Distinguish between the roles of learning support assist...
- Explain how goal-oriented schools operate
- Outline the school development plan and manag... Read More

More Info Start Learning
Certificate
education

Understanding Epilepsy

3-4 hrs 5,256 learners

You Will Learn How To

- Define ‘epilepsy’
- Classify epileptic seizures
- Discuss the symptoms and causes of epilepsy
- Explain how to diagnose epilepsy with an EEG Read More

More Info Start Learning
Certificate
education

First Aid: A Comprehensive Guide to Saving Lives

2 - 3 hrs 2,995 learners

You Will Learn How To

- Discuss how to respond to various accidents, injuries an...
- Explain why ensuring the safety of the victim and the ca...
- Distinguish between physical health and menta... Read More

More Info Start Learning
Certificate
education

Basics of Manual Handling in the Workplace

2 - 3 hrs 57,858 learners

You Will Learn How To

- Explain the concept of manual handling
- Summarise the different types of manual handling in the ...
- Outline the factors that lead to injuries in ... Read More

More Info Start Learning
Certificate
education

Early Childhood Crisis and Trauma

3-4 hrs 16,908 learners

You Will Learn How To

- Define terms like ‘disasters’, ‘crises’ and ‘trauma’
- Recognize the effects of trauma on human psychology
- Explain the interaction between children and ... Read More

More Info Start Learning

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- 10
- …
- 77
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Showing 17-32 of 1217 Courses

Benefits Of An Alison Certificate

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- #### Stand Out From The Crowd

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- #### Advance in Your Career

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Top STEM Courses

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Top Teaching Courses

Most Popular Teaching & Academics Courses

Certificate
education

Mastering Modern Day Parenting Techniques

3-4 hrs 1,422 learners

You Will Learn How To

- Discuss the different parenting styles and their effecti...
- Describe the key components of emotional intelligence an...
- Summarize the key strategies for effective co... Read More

More Info Start Learning
Certificate
education

Physical Education - Coaching Styles and Techniques

2 - 3 hrs 34,404 learners

You Will Learn How To

- Describe the effectiveness of a coach in improving team ...
- Illustrate effective coaching styles and techniques
- Explain legal ergogenic aids such as nutritio... Read More

More Info Start Learning
Certificate
education

Learning Support Assistant (LSA) Training

2 - 3 hrs 5,371 learners

You Will Learn How To

- Explain the role of a Learning Support Assistant (LSA)
- Indicate the various learning support activities
- List monitoring processes and procedures Read More

More Info Start Learning
Certificate
education

First Aid for Pediatric Emergencies

2 - 3 hrs 5,867 learners

You Will Learn How To

- Classify various pediatric age groups
- Compare adult medicine with pediatric medicine
- Recognise the method of performing CPR on chi... Read More

More Info Start Learning
Certificate
education

AS9100D Quality Management System (QMS) for Aerospace Industry

3-4 hrs 1,986 learners

You Will Learn How To

- Compare different AS standards on the basis of their imp...
- List the major features of the AS9100D standard
- Recognize the importance of the organizations... Read More

More Info Start Learning
Certificate
education

Introduction to Forest Schooling

2 - 3 hrs 1,352 learners

You Will Learn How To

- Define the ‘forest school’ teaching model
- Explain the nature-based values and the role of forest s...
- Summarise the procedures involved in a forest school pro...
- Identify risks and know control measures rele... Read More

More Info Start Learning
Certificate
education

Signs of Substance Abuse and What to Do

3-4 hrs 8,514 learners

You Will Learn How To

- Outline commonly misused substances and disorders relate...
- Describe different types of substances as well as their ...
- Discuss the importance and principles of prev... Read More

More Info Start Learning
Certificate
education

Special Education Needs and Disabilities (SEND) Inclusion in Schools

2 - 3 hrs 1,376 learners

You Will Learn How To

- Explain the concepts of SEND along with the laws and mod...
- List the principles of the SEND code of practice and exp...

- Distinguish between inclusive and non-inclusi... Read More

More Info Start Learning
Certificate
education

Positive Handling and Behavioural Training in Schools

2 - 3 hrs 3,969 learners

You Will Learn How To

- Explain the importance of positive handling in schools
- Outline the components of the ‘SCARF’ Model and their si...
- Compare acceptable and unacceptable student b... Read More

More Info Start Learning
Certificate
education

Fundamentals of Serving Safe for Food Handlers

2 - 3 hrs 2,042 learners

You Will Learn How To

- Outline the importance of food safety and safe food hand...
- Indicate the seven different steps involved in food prep...
- Distinguish the food items into perishable an... Read More

More Info Start Learning
Certificate
...

[Message clipped] View entire message
One attachment • Scanned by Gmail

tshingombe fiston <tshingombefiston@gmail.com> Jul 28, 2024, 1:46 PM

to TSHINGOMBEKB,

t

tshingombe fiston <tshingombefiston@gmail.com>

Jul 26, 2024, 1:59 PM (2 days ago)

to ALISON, TSHINGOMBEKB, me

Conversation opened. 1 read message.

Skip to content
Using Gmail with screen readers

50 of 4,150

[ZendTo] 5Y Data Request

Inbox

ZendTo <noreply.zendto@eskom.co.za>

Fri, Mar 8, 10:31 AM (3 days ago)

to
me

This is an automated message sent to you by the ZendTo service.

Eskom Automation <noreply.portal@eskom.co.za> has dropped off a file

for you.

IF YOU TRUST THE SENDER and are expecting to receive a file from them, you may choose to retrieve the drop-off by clicking the following link (or copying and pasting it into your web browser):

https://zendto.eskom.co.za/pickup?claimID=rdkqXdn2Udun4uz3&claimPasscode=2WbpNXmkjh5izpQg&emailAddr=49846

You have 21 days to retrieve the drop-off; after that the link above will expire.
If you wish to contact the sender, just reply to this email.

The sender has left you a note:

Requested files

Full information about the drop-off:

Claim ID:	rdkqXdn2Udun4uz3
Claim Passcode:	2WbpNXmkjh5izpQg
Date of Drop-off:	2024-03-08 10:31:05

— Sender —

Name:	Eskom Automation
Organization:	Eskom
Email Address:	noreply.portal@eskom.co.za

— File —

Name:	ESK8572.csv
Description:	Eskom 5Y Data Request
Size:	12.7 MB

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Conversation opened. 1 unread message.

Skip to content
Using Gmail with screen readers

1 of 4,152

[ZendTo] You are trying to drop off some files

Inbox

ZendTo <noreply.zendto@eskom.co.za>

9:54 AM (4 minutes ago)

to me

This is an automated message sent to you by the ZendTo service.

Name:	tshingombe
Organization:	engineering tshingombe/st peace college
Email:	tshingombefiston@gmail.com

You have asked us to send you this message so that you can drop-off some files for someone.

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Otherwise, continue the process by clicking the following link (or copying and pasting it into your web browser):

https://zendto.eskom.co.za/dropoff?auth=9a23345e836a4f1b1afc6dec30d1f050

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- Finance
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- Home
- CPD Pre-Validated Activities

CPD Pre-Validated Activities

Validation Number. sort descending	Provider. sort descending	Course Category. sort descending	Name. sort ascending	Category. sort descending	National Hours. sort descending	Credits Earned. sort descending	Nature of Activity. sort descending	Discipline. sort descending	Sub Discipline. sort descending	Valid From. sort descending	Valid To. sort descending
				All Categories							
SEMC-BLD-02	IESSA	Refresher courses	2-Day Course on Design of High-Rise Buildings: Johannesburg, Cape Town and Durban		20.00	2.00				1/1/2015	12/31/2019
SEMC-ERC-02	IESSA	Refresher courses	2-Day Course on Eurocode Design of Concrete Structures: Johannesburg,		20.00	2.00				1/1/2015	12/31/2019

Validation Number. sort descending	Provider. sort descending	Course Category. sort descending	Name. sort ascending	Category. sort descending	National Hours. sort descending	Credits Earned. sort descending	Nature of Activity. sort descending	Discipline. sort descending	Sub Discipline. sort descending	Valid From. sort descending	Valid To. sort descending
			Cape Town and Durban								
IESSACIEmeetings004/11	Illumination Engineering Society of South Africa	Refresher courses	CIE Meetings April		2.00	0.20				6/1/2011	5/31/2013
IESSACIEmeetings002/11	Illumination Engineering Society of South Africa	Refresher courses	CIE Meetings February		2.00	0.20				6/1/2011	5/31/2013
IESSACIEmeetings001/11	Illumination Engineering Socie	Refresher courses	CIE. Meetings January		2.00	0.20				6/1/2011	5/31/2013

Validation Number. sort descending	Provider. sort descending	Course Category. sort descending	Name. sort ascending	Category. sort descending	National Hours. sort descending	Credits Earned. sort descending	Nature of Activity. sort descending	Discipline. sort descending	Sub Discipline. sort descending	Valid From. sort descending	Valid To. sort descending
IESSACIEmeetings003/11	ty of South Africa Illumination Engineering Society of South Africa	Refresher courses	CIE Meetings March		2.00	0.20				6/1/2011	5/31/2013
CEM-10.5/2014	IESSA	Refresher courses	Combination of Environmental Management Awareness for Local Government CEM 09.1.3 and Introd		20.00	2.00				1/1/2014	12/31/2014

Validation Number. sort descending	Provider. sort descending	Course Category. sort descending	Name. sort ascending	Category. sort descending	National Hours. sort descending	Credits Earned. sort descending	Nature of Activity. sort descending	Discipline. sort descending	Sub Discipline. sort descending	Valid From. sort descending	Valid To. sort descending
CEM-10.6/2014	IESSA	Refresher courses	uction to Integrated Waste Management CEM 09.6.2 Combination of Introduction to Remediation CEM 06.5.2 and CEM 10.1		40.00	4.00				1/1/2014	12/31/2014

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engineer@ecsa.co.za

+27116079500

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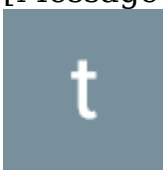

tshingombe fiston <tshingombefiston@gmail.com>

Aug 2, 2024, 9:15 PM

to TSHINGOMBEKB,
me

On Sat, 27 Jul 2024, 18:48 TSHINGOMBEKB TSHITADI, <tshingombekb@gmail.com> wrote:
https://alison.com/shop?utm_campaign=5844_sale1_march2023_on_nongrad&utm_source=outbound%20marketing&utm_medium=email&utm_datesent=2023-03-02&utm_emailtype=marketing&utm_segment=1155&utm_campaigntheme=b2c&utm_subjecttone=exciting

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to TSHINGOMBEKB,
me

resources and courses on diplome electrical engineering - handpicked by experts

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426 courses

Certificate
Beginner Level
engineering

Electrical Engineering - Electrical Transformer Components

0% complete
You Will Learn How To

- Identify all of an electrical transformer’s main compone...
- Explain how a Buchholz relay works
- Describe how oil level measurement works Read More

More Info Continue

Certificate
Advanced Level
education

Electrical Engineering in Theory

3-4 hrs 3,261 learners
You Will Learn How To

- Recall the fundamentals of electricity and its significa...
- Explain DC networks, network theorems, and network diagr...

- Analyze single-phase AC circuits for RMS value, form fac...
- Explain the basic principles of the operation... Read More

More Info Start Learning

Certificate
Beginner Level
engineering

Trigonometry in Electrical Engineering

5-6 hrs 3,958 learners
You Will Learn How To

- Define trigonometry
- Recall the Pythagorean theorem
- Identify the various types of triangles Read More

More Info Start Learning

Certificate
Beginner Level
engineering

Electrical Measuring Instrumentation

0% complete
You Will Learn How To

- Categorize electrical measuring instruments
- Explain how to repair such instruments
- Recognize the measurement of electric resista... Read More

More Info Continue

Diploma
Beginner Level
engineering

Diploma in Electrical Studies

11% complete
You Will Learn How To

- Discuss the significance of electrical trade in today's ...
- Describe the basic electrical wiring system in residenti...
- State the hazards involved in working with electric powe...
- List the various types of electrical device b... Read More

More Info Continue

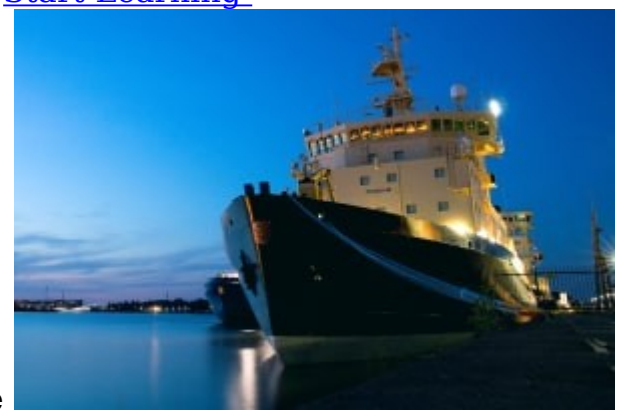
Certificate
Intermediate Level
engineering

Maintenance and Repair of Marine Electrical Equipment

4-5 hrs 3,542 learners
You Will Learn How To

- Explain the methodology of electrical maintenance
- Discuss the maintenance of switchboards
- Analyze the detection of an electric malfunct... Read More

More Info Start Learning



Certificate
Intermediate Level
engineering

Introduction to Marine Electrical

4-5 hrs 5,061 learners
You Will Learn How To

- Explain the standard symbols and units used in electroni...
- Discuss the basic science behind electricity
- Describe electromotive force (EMF) and electr... Read More

More Info Start Learning

Certificate
Beginner Level
engineering

Introduction to Basic Electrical Drawings and Test Equipment

2 - 3 hrs 55,776 learners
You Will Learn How To

- List the plans and drawings that are included in electri...
- Describe the various terms associated with electrical dr...
- Discuss the drawing layout, the common drafti... Read More

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- 193 Countries

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engineering

Introduction to Electrical Technology

5-6 hrs 5,515 learners
You Will Learn How To

- Describe how to safely lift and shift equipment
- Discuss the mechanism and prevention of electric shocks
- Analyze different artificial respiration meth... Read More

More Info Start Learning

Certificate
Beginner Level
engineering

Fundamentals of Marine Engineering

2 - 3 hrs 926 learners
You Will Learn How To

- Distinguish between nautical science and marine engineer...
- Identify profitable job opportunities in both public and...
- Explain the underlying math and physics in ma... Read More

More Info Start Learning

Certificate
Advanced Level
engineering

NFPA 70E (2024) - Navigating Workplace Electrical Safety & Essential Updates

3-4 hrs 5,294 learners
You Will Learn How To

- Define the NFPA 70 series and the standards present in t...
- Recognize the types of premises and installations that a...

- Indicate the major responsibilities of employ... Read More

More Info Start Learning

Diploma
Advanced Level
engineering

Diploma in Solar Energy Engineering

10-15 hrs 27,147 learners
You Will Learn How To

- Discuss the different available means of harnessing sola...
- Describe the devices commonly used for solar energy coll...
- Explain how solar radiation reaches the surfa... Read More

More Info Start Learning

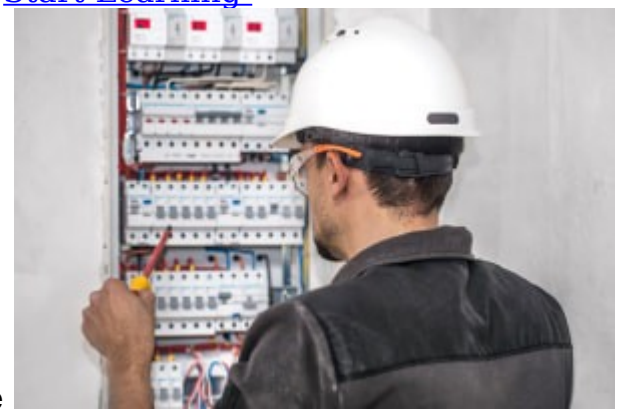
Certificate
Beginner Level
engineering

Electrical Fundamentals

5-6 hrs 10,335 learners
You Will Learn How To

- Define the key terms and formulae of electrical theory
- Analyze the key circuit parameters of resistance, capaci...
- Explain the basic laws and effects of electric current
- Describe the workings of DC circuits in both ... Read More

More Info Start Learning



Certificate
Intermediate Level
education

Introduction to Electrical Maintenance

4-5 hrs 14,753 learners
You Will Learn How To

- Review the process to check or measure air gap dimension...
- List the classification of electrical insulation based o...
- Explain the difference between aligning coupl... Read More

More Info Start Learning

Diploma
Advanced Level
engineering

Diploma in Marine Electrical

20-30 hrs 7,432 learners
You Will Learn How To

- Explain the standard symbols and units used in electroni...
- Describe electro-motive force (EMF) and electric current
- Outline the factors affecting capacitance value
- Define the concepts of resistance, conductor,... Read More

More Info Start Learning

Certificate
Intermediate Level
engineering

Fundamentals of Electrical Three-Phase Power Transformers

4-5 hrs 2,855 learners
You Will Learn How To

- Explain the working principle of a power transformer
- Distinguish between ideal and real transformers
- Explain how the losses in a real transformer ... Read More

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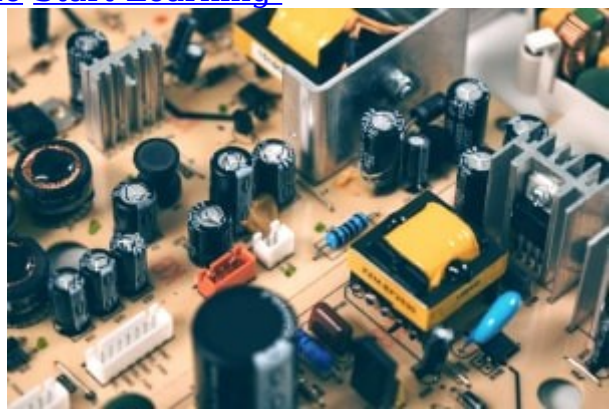
Essentials of Electrical Safety

2 - 3 hrs 10,925 learners
You Will Learn How To

- Identify the effects of electric current on the human bo...
- List the general safety rules for working with electrici...
- Describe the available features of direct and alternatin...
- Explain the relationship between voltage, cur... Read More

More Info Start Learning

Diploma 
Advanced Level
engineering

Advanced Diploma in Basics of Electrical Technology and Circuit Analysis

15-20 hrs 9,884 learners
You Will Learn How To

- Identify different types of resistors and their applicat...

- Discuss the mechanism and prevention of electric shocks
- Evaluate the process of finding the unknown r... Read More

More Info Start Learning

Certificate
Beginner Level
engineering

Introduction to the Electrical Trade

2 - 3 hrs 59,545 learners
You Will Learn How To

- Outline the basics of electrical wiring systems
- Identify the job requirements of the electrical trade
- Describe the effects of an electric shock Read More

More Info Start Learning

Certificate
Beginner Level
management

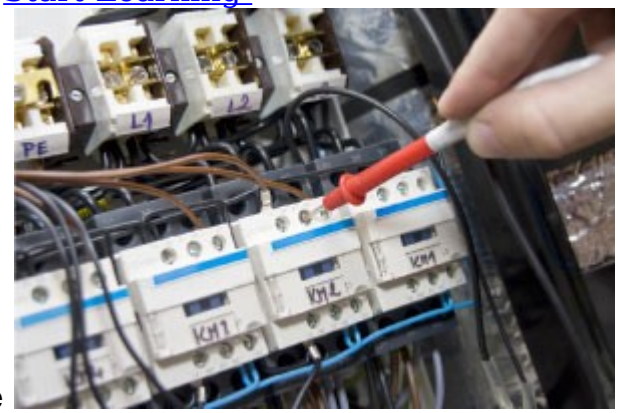
Engineering Project Management

2 - 3 hrs 16,247 learners
You Will Learn How To

- Define the concept of engineering and its role among oth...
- Describe the discipline of engineering management and h...

- Discuss what is meant by project management and its his...
- Distinguish between engineering project manag... Read More

More Info Start Learning



Certificate
Beginner Level
engineering

Introduction to Electrical Wiring Systems

2 - 3 hrs 48,132 learners
You Will Learn How To

- State the uses of electrical device boxes
- Discuss the terms associated with device boxes
- Apply the steps involved in making a 90-degre... Read More

More Info Start Learning

Diploma
Advanced Level
engineering

Diploma in Electrical Technology

10-15 hrs 7,884 learners
You Will Learn How To

- Describe the basic concepts of magnetism and distinguish...
- Define electromagnetism and analyze the various ways to ...
- Discuss the fundamentals of electricity and define the b...
- Identify circuit parameters and explain the b... Read More

More Info Start Learning

Certificate
Advanced Level
engineering

Fundamental of Basic Electrical Circuits

4-5 hrs 5,683 learners
You Will Learn How To

- Identify the basic circuit elements and their applicatio...
- Discuss the operations of sinusoid and phasors in an ele...
- Discuss the various properties of resistors, ... Read More

More Info Start Learning

Certificate
Advanced Level
engineering

Diagnose Basic Car Electrical Problems Using Wiring Diagrams

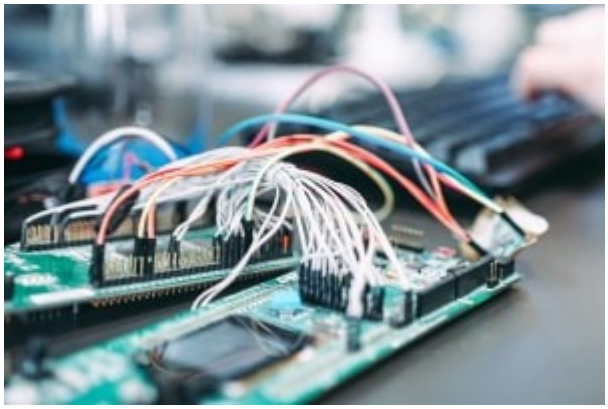
2 - 3 hrs 15,705 learners
You Will Learn How To

- Define ‘voltage’, ‘current’ and ‘resistance’
- State what every basic electrical circuit needs to opera...
- Describe the four types of faults that can af... Read More

More Info Start Learning

Did you mean: diploma electrical engineering?

426 courses



Certificate
Advanced Level
engineering

Electrical Technology - Basic Laws and Single Phase AC Circuits

4-5 hrs 1,470 learners
You Will Learn How To

- Define Ohm's law
- Analyze Kirchoff's voltage law and Kirchoff's current la...
- Evaluate the process of finding the unknown r... Read More

More Info Start Learning

Certificate
Advanced Level
engineering

An Introduction to Solar Energy Engineering

4-5 hrs 7,389 learners
You Will Learn How To

- Recall the different ways of harnessing solar energy
- Describe the devices commonly used for solar energy coll...
- Explain how solar radiation reaches the surfa... Read More

More Info Start Learning

Certificate
Beginner Level
management

Basics of Engineering Management

2 - 3 hrs 8,758 learners
You Will Learn How To

- Define ‘engineering management’ and describe the skills ...
- Define ‘decision analysis’ and explain how it can be use...
- Identify the various components of the strategic plannin...

- Discuss the different elements of cost accou... Read More

More Info Start Learning

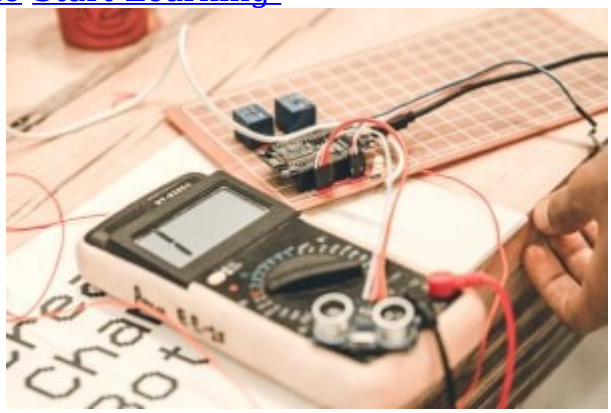
Certificate
Beginner Level
engineering

Guide to Transformer Maintenance

2 - 3 hrs 1,323 learners
You Will Learn How To

- Identify all parts of a power transformer
- Describe the function of each transformer part
- Explain how a transformer's parts are connected to carry...
- Recognize when transformer parts are faulty Read More

More Info Start Learning



Diploma
Advanced Level
engineering

Advanced Diploma in Basic Electrical Circuits

10-15 hrs 7,060 learners
You Will Learn How To

- Identify the basic circuit elements and their applicatio...
- Discuss the various properties of resistors, capacitors,...
- Discuss the mesh and nodal analysis of variou... Read More

More Info Start Learning

Diploma
Intermediate Level
engineering

Diploma in Structural Engineering and Construction Site Safety

6-10 hrs 27,434 learners
You Will Learn How To

- Explain slab centring, beam reinforcements, and beam arr...
- Describe the processes used in slab reinforcements
- Discuss the systems for staircase placement, ... Read More

More Info Start Learning

Certificate
Advanced Level
engineering

Introduction to Industrial Engineering

4-5 hrs 7,073 learners
You Will Learn How To

- Define the concept of industrial engineering
- Explain the different types of industries in the field
- Identify the functions of industrial engineer... Read More

More Info Start Learning

Certificate
Intermediate Level
engineering

Marine Electrical - Distribution System and Maintenance

4-5 hrs 2,862 learners
You Will Learn How To

- Analyze the layout of an AC shipboard installation
- Discuss the layout of a DC shipboard installation
- Describe the power distribution system onboar... Read More

More Info Start Learning

Rated Excellent on Trustpilot

- 40 Million + Learners
- 8 Million + Graduates
- 193 Countries

Certificate
Beginner Level
health

Health and Safety - Electrical Safety in the Workplace

2 - 3 hrs 4,774 learners
You Will Learn How To

- Summarize the definition of electricity
- Outline the standards for electrical use
- Discuss the potential electrical hazards that... Read More

More Info Start Learning

Certificate
Advanced Level
education

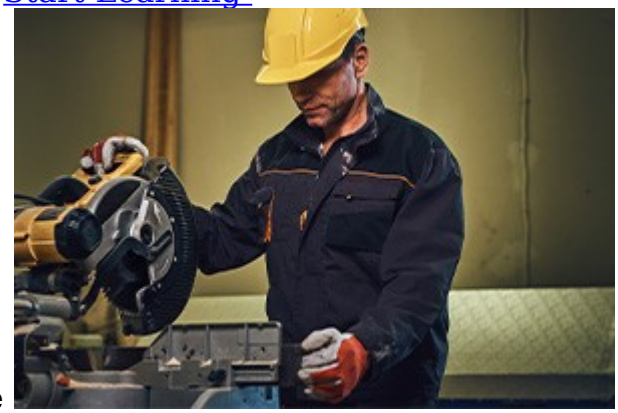
Chemical Engineering Overview

2 - 3 hrs 3,711 learners
You Will Learn How To

- Distinguish between a chemist and a chemical engineer
- Summarize the responsibilities of a chemical engineer
- Explain the fluid flow relationships between energy and ...

- Identify the common microorganisms used in wa... Read More

More Info Start Learning



Certificate
Intermediate Level
engineering

Mechanical Engineering Principles and Design Concepts

3-4 hrs 6,953 learners
You Will Learn How To

- Explain the concept, achievements, and benefits of mecha...
- State the ideal expectations from the mechanical enginee...
- Discuss the conditions needed for a state of ... Read More

More Info Start Learning

Certificate
Beginner Level
engineering

Maintenance and Troubleshooting for Electronic and Electrical Devices

4-5 hrs 14,746 learners
You Will Learn How To

- Describe the work of a troubleshooter
- List the various tools used by a troubleshooter
- Summarise standard electronic and electrical ... Read More

More Info Start Learning

Certificate
Advanced Level
engineering

Fundamentals of Value Engineering Tools and Techniques

4-5 hrs 2,844 learners
You Will Learn How To

- Discuss the cost-function relationship of a product in v...
- Explain how value engineering can be applied to the cost...
- Discuss the advantages of applying the FAST m... Read More

More Info Start Learning

Diploma
Advanced Level
business

Diploma in Principles of Industrial Engineering

10-15 hrs 7,380 learners
You Will Learn How To

- Define the principle of industrial engineering
- Discuss the functions and tools of industrial engineerin...
- Explain the organizational structure of indus... Read More

More Info Start Learning

Certificate
Beginner Level
education

Study of Electrical Measuring Instrumentation

4-5 hrs 3,822 learners
You Will Learn How To

- Categorize measuring instruments and know how to repair ...
- Recognize the measurement of electric resistance
- Compare the basic types of instruments Read More

More Info Start Learning

Diploma
Intermediate Level
engineering

Diploma in Cathodic Protection Engineering

10-15 hrs 4,366 learners
You Will Learn How To

- Explain the forms of corrosion that occur on metallic st...
- Categorize various forms of corrosion
- Discuss the effects of microbes on electroche... Read More

More Info Start Learning

Overwhelmed by career choices? Let us guide you.

Discover the career most suitable for you and get started in the field with a step-by-step plan.

Get Your Plan

Diploma
Advanced Level
engineering

Diploma in Mechatronics

10-15 hrs 27,889 learners
You Will Learn How To

- State the basic components and examples of mechatronic s...
- Outline the laws and key components of electrical circui...
- Discuss the principles of semiconductor devices
- Distinguish between sensors and transducers Read More

More Info Start Learning

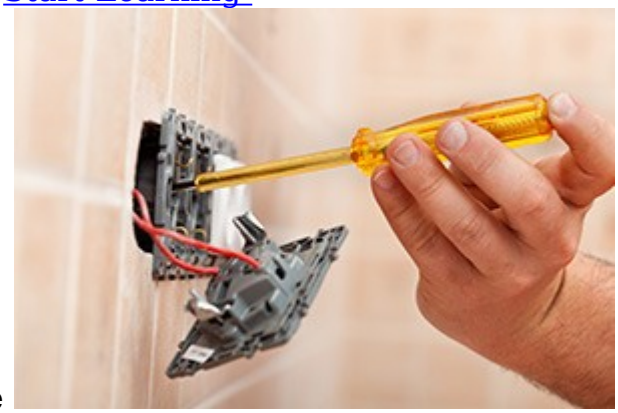
Certificate
Advanced Level
health

Introduction to Tissue Engineering

2 - 3 hrs 2,538 learners
You Will Learn How To

- Discuss tissue engineering and whole tissue replacement
- Identify implant-associated infections and their treatme...
- Define foreign body response (FBR) Read More

More Info Start Learning



Certificate
Intermediate Level
education

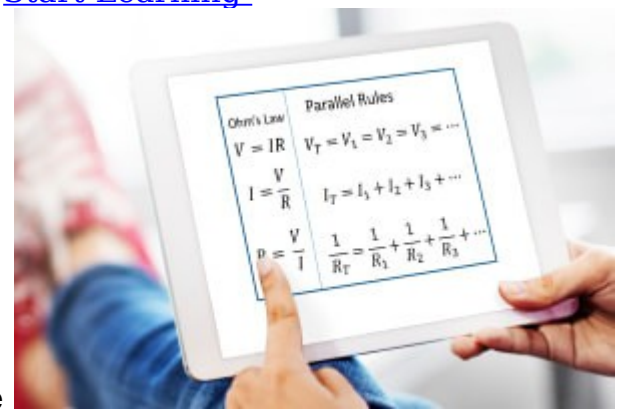
Understanding Basic Electricity

2 - 3 hrs 26,171 learners
You Will Learn How To

- Recognize the relationship between current, resistance, ...
- State Ohm’s Law and how it applies to the direct current...
- Evaluate the current, voltage, and resistance of a DC ci...

- Explain Kirchhoff’s current and voltage laws Read More

More Info Start Learning



Certificate
Beginner Level
engineering

Parallel Circuit Rules and Ohm's Law

2 - 3 hrs 2,883 learners
You Will Learn How To

- State the four parallel circuit rules
- Describe the differences between parallel and series cir...
- Solve for total resistance in a parallel circ... Read More

More Info Start Learning

Certificate
Beginner Level
Information Technology

Basics of Network Engineering

2 - 3 hrs 8,993 learners
You Will Learn How To

- Define the term telecommunications along with the basic ...
- Identify the applications, characteristics, and distinct...
- Discuss the fundamental limitations and specifications f...
- Explain the overarching concept and functiona... Read More

More Info Start Learning

Certificate
Intermediate Level
education

Introduction to Biomedical Engineering Theory

3-4 hrs 2,778 learners
You Will Learn How To

- List the areas covered by biomedical engineering within ...
- Discuss the primary biological systems included in the s...
- Explain the various working principles of sen... Read More

More Info Start Learning

Diploma
Advanced Level
engineering

Advanced Diploma in Principles of Industrial Engineering

20-30 hrs 6,519 learners
You Will Learn How To

- Outline the roles of industrial engineering
- Analyze the importance of a healthy organizational cultu...
- Analyze the required methods of site selectio... Read More

More Info Start Learning

Certificate
Intermediate Level
business

Reliability Engineering Fundamentals - Enhanced Performance Levels

4-5 hrs 1,576 learners
You Will Learn How To

- Define the concept of reliability
- Indicate how organizations ensure their product's reliab...
- Contrast between reliability, durability, and... Read More

More Info Start Learning

Did you mean: diploma electrical engineering?

426 courses

Certificate
Intermediate Level
management

Practical Municipal Engineering: Managing Public Works and Urban Projects

2 - 3 hrs 514 learners
You Will Learn How To

- Define municipal engineering and its impact on our urban...
- Explain the diverse nature of the municipal engineering ...
- Discuss the tasks and responsibilities of the... Read More

More Info Start Learning

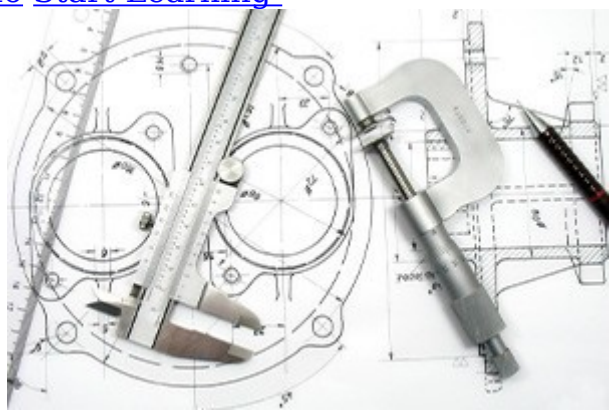
Diploma
Advanced Level
engineering

Diploma in Engineering Fundamentals of Electric Vehicles

15-20 hrs 11,647 learners
You Will Learn How To

- Define Ohm’s law and Kirchhoff's first and second law
- Calculate torque inside a PMDC motor
- Understand the role of magnetic flux inside a... Read More

More Info Start Learning



Diploma
Beginner Level
education

Diploma in Mathematics for Engineering

15-20 hrs 2,102 learners
You Will Learn How To

- List terms associated with mathematical systems
- Describe the algebraic and geometric definitions of the ...
- Explain how a quadratic equation takes the fo... Read More

More Info Start Learning

Certificate
Intermediate Level
health

Fundamentals of Biomedical Engineering

3-4 hrs 268 learners

You Will Learn How To

- Define bioinformatics and state its core principles
- State the challenges of Sequence alignment and database ...
- Recall some ethical considerations in biomedi... Read More

More Info Start Learning

Diploma
Advanced Level
engineering

Diploma in Optical Engineering

10-15 hrs 2,138 learners
You Will Learn How To

- Discuss the meaning and importance of optical engineerin...
- Explain the basics of optical engineering using differen...
- Analyze how light travels in a homogeneous medium and th...
- Explain the parameters of the transverse magn... Read More

More Info Start Learning

Certificate
Beginner Level
engineering

Series Parallel Circuits and Ohm's Law

2 - 3 hrs 3,370 learners
You Will Learn How To

- State the four series circuit rules
- Recall the four parallel circuit rules
- Describe the differences between series circu... Read More

More Info Start Learning

Certificate
Intermediate Level
Information Technology

Prompt Engineering for AI Applications

2 - 3 hrs 8,332 learners
You Will Learn How To

- Analyse real-world examples to comprehend the profound i...
- Discuss effective techniques for leveraging language mod...
- Evaluate the effectiveness of prompt engineer... Read More

More Info Start Learning

Certificate
Advanced Level

education

Tissue Engineering and Material Characteristics

6-10 hrs 1,708 learners
You Will Learn How To

- Outline the role of Hydrogels in Tissue Engineering
- Identify the various methods and materials required to p...
- Discuss the applications of Bioceramics in Ti... Read More

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- 193 Countries

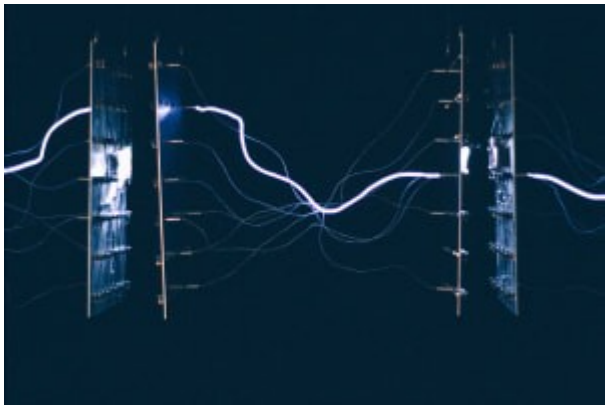
Certificate
Beginner Level
education

Introduction to Environmental Engineering

3-4 hrs 2,091 learners
You Will Learn How To

- Define various terms used in environmental engineering
- Analyse the interdependence of living and non-living ele...
- Identify different forms of air and water pol... Read More

More Info Start Learning



Certificate
Beginner Level
engineering

Primer on Electrical Transducers

4-5 hrs 459 learners
You Will Learn How To

- Analyze the characteristics of transducers
- Define temperature transducers
- Recognize a resistive strain gauge
- Define the linear variable differential trans... Read More

More Info Start Learning

Certificate
Advanced Level
Information Technology

Fundamentals of Sound Engineering

3-4 hrs 1,955 learners
You Will Learn How To

- Define the fundamental properties of sound, including fr...
- Describe how sound travels through different mediums and...

- Explain the stages of signal flow from sound ... Read More

More Info Start Learning

Certificate
Intermediate Level
engineering

Fundamentals of Environmental Engineering

3-4 hrs 2,544 learners
You Will Learn How To

- Relate environmental chemistry and microbiology concepts...
- Describe bacteria, fungi, algae and protozoa along with ...
- Distinguish between the physical and chemical... Read More

More Info Start Learning

Certificate
Beginner Level
engineering

Intelligence Electrical Devices and Digital Electrical Circuits

2 - 3 hrs 2,676 learners
You Will Learn How To

- Distinguish a binary number system from the decimal numb...
- Solve the addition, subtraction and multiplication of tw...
- Categorize the different logic gates into bas... Read More

More Info Start Learning

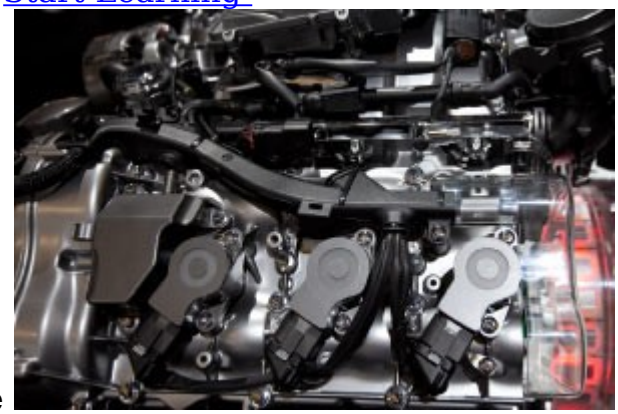
Certificate
Advanced Level
engineering

Introduction to Optical Engineering

4-5 hrs 1,249 learners
You Will Learn How To

- Discuss the meaning and historical background of optical...
- Explain the concept and application of Gaussian beams to...
- Analyze how light travels in a straight line ... Read More

More Info Start Learning



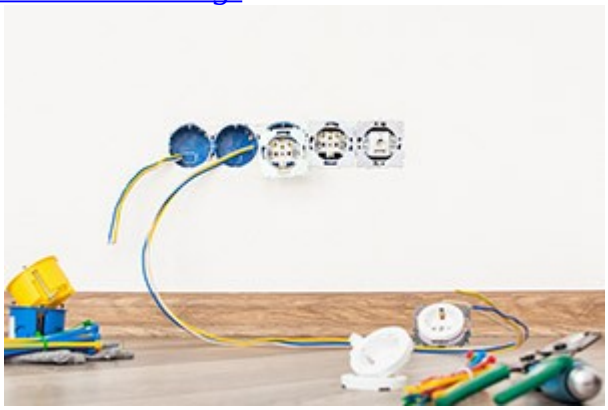
Certificate
Beginner Level
engineering

Mechanical Engineering - Internal Combustion Engine Basics

2 - 3 hrs 106,438 learners
You Will Learn How To

- Describe how petrol and diesel engines work
- Examine how internal combustion (IC) engines work
- Outline how two stroke engines work Read More

More Info Start Learning



Certificate
Beginner Level
engineering

AC Circuit Analysis: The Fundamentals

2 - 3 hrs 1,748 learners
You Will Learn How To

- Distinguish between AC and DC circuits
- Explain why AC currents are used in the transmission of ...
- Compute the RMS value of the voltage and curr... Read More

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Get Your Plan

Diploma
Advanced Level
engineering

Diploma in Audio System Engineering

10-15 hrs 29,443 learners
You Will Learn How To

- Discuss sound as a pressure wave and its mode of propaga...
- List the necessary specification design for certain soun...
- Discuss the process of sound propagation Read More

More Info Start Learning

Diploma
Advanced Level
engineering

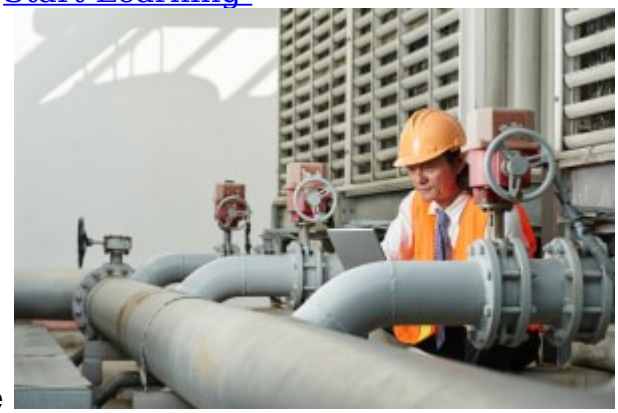
Advanced Diploma in Principles of Engineering System Design

15-20 hrs 4,010 learners
You Will Learn How To

- Explain a systems engineering plan for a project
- Compare the applicability of any proposed process strate...

- Arrange the most essential systems engineerin... Read More

More Info Start Learning



Certificate
Beginner Level
engineering

Gas Engineering: Concepts and Technologies

4-5 hrs 3,250 learners
You Will Learn How To

- List the typical duties of a gas engineer
- Identify qualifications necessary for employment as a ga...
- Describe gas piping materials and what you ne... Read More

More Info Start Learning

Certificate
Beginner Level
engineering

Comprehensive Guide to Portable Appliance Testing

2 - 3 hrs 4,086 learners
You Will Learn How To

- Define ‘portable appliance testing’ (PAT)
- Summarise the purpose and importance of portable applian...
- Analyse the relationships between electrical ... Read More

More Info Start Learning

Diploma
Advanced Level
engineering

Advanced Diploma in Engineering Thermodynamics

15-20 hrs 5,945 learners
You Will Learn How To

- Describe the basic concepts of systems and states
- Illustrate property diagrams of pure substances
- Solve energy balance problems associated with... Read More

More Info Start Learning

Certificate
Intermediate Level
engineering

Electric Power Metering - Single and 3-Phase Systems

3-4 hrs 2,947 learners

You Will Learn How To

- Define power and energy
- Summarize how to calculate power consumed by an AC circu...
- Describe phasors and their polar and rectangu... Read More

More Info Start Learning

Certificate
Beginner Level
education

Engineering Calculus Simplified (Derivatives)

3-4 hrs 1,742 learners
You Will Learn How To

- Define functions and limits
- Compare graphically the sin function with its derivative
- Explain the Cartesian coordinates system Read More

More Info Start Learning

Certificate
Advanced Level
engineering

Introduction to Principles of Industrial Engineering

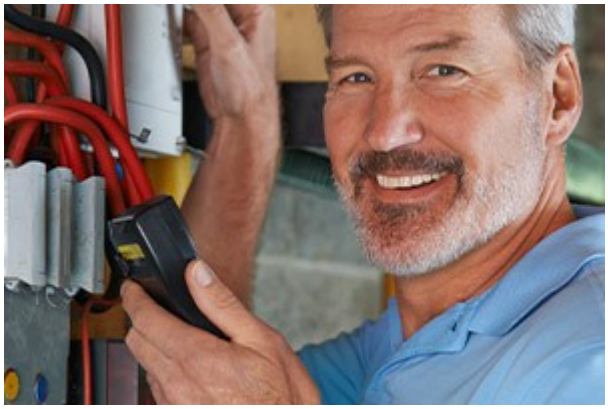
3-4 hrs 1,971 learners
You Will Learn How To

- Outline the roles of industrial engineering
- Compare the general and specific objectives of industria...
- Explain the functions of industrial engineeri... Read More

More Info Start Learning

Did you mean: diploma electrical engineering?

426 courses



Certificate
Intermediate Level
engineering

Electric Power Metering - Single and 3-Phase Systems

3-4 hrs 2,947 learners
You Will Learn How To

- Define power and energy
- Summarize how to calculate power consumed by an AC circu...
- Describe phasors and their polar and rectangu... Read More

More Info Start Learning

Diploma
Intermediate Level
engineering

Diploma in Power System Protection - An Introduction

5-6 hrs 3,806 learners
You Will Learn How To

- Explain the different types of faults in a power system ...
- Contrast the different types of relays based on their co...
- Outline the application of the different type... Read More

More Info Start Learning

Certificate
Advanced Level
Information Technology

Basics of Prompt Engineering

2 - 3 hrs 9,582 learners
You Will Learn How To

- Explain how to design a prompt
- Indicate how to set up your environment and install the ...
- Discuss basic prompting methods

- Explain advanced prompting methods, such as Z... Read More

More Info Start Learning

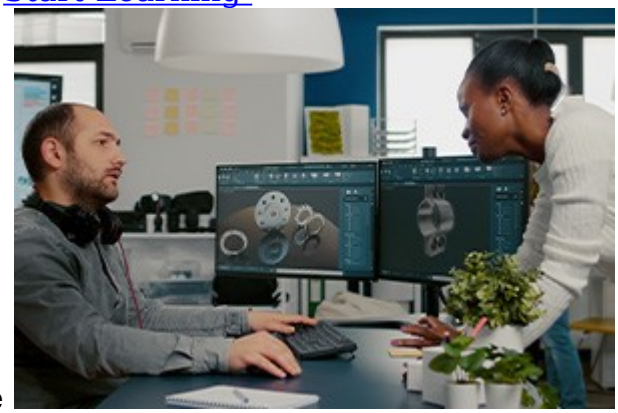
Certificate
Intermediate Level
engineering

Utility Distribution Stations and Feeder Protection

3-4 hrs 2,887 learners
You Will Learn How To

- Recall the basic types of distribution in substations an...
- Explain per-phase analysis and recall the procedures for...
- Identify substation components Read More

More Info Start Learning



Certificate
Beginner Level
business

A Beginner's Guide to Feature Engineering

3-4 hrs 219 learners
You Will Learn How To

- Define feature engineering, the way it works, and its pr...
- List the essential processes of feature engineering
- Describe different techniques in feature engi... Read More

More Info Start Learning

Certificate
Beginner Level
engineering

Symmetrical Components in Three-Phase Systems

2 - 3 hrs 833 learners
You Will Learn How To

- Explain Fortescue's theory of symmetrical components
- Distinguish the notation used to represent the phases an...
- Identify an unbalanced and a balanced three-p... Read More

More Info Start Learning

Certificate
Advanced Level
engineering

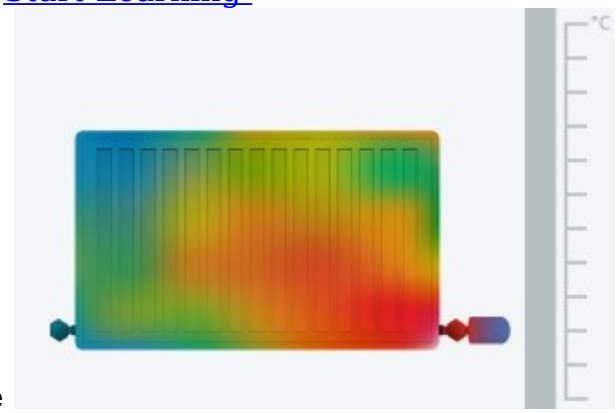
Introduction to Engineering System Design & Processes

3-4 hrs 2,857 learners

You Will Learn How To

- Explain why we need to have system engineering as a
- separate discipline
- Define the concept system engineering and the... Read More

More Info Start Learning



Certificate
Beginner Level
education

Understanding Thermodynamics for Science and Engineering

2 - 3 hrs 6,937 learners
You Will Learn How To

- Outline the essential properties of gases and liquids
- Calculate an ideal gas P x V = K, where P = Pressure, V ...
- Define temperature and how it affects pressur... Read More

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- 8 Million + Graduates
- 193 Countries

Certificate
Intermediate Level
engineering

Principles of Circuit Diagrams and Blueprint Reading

4-5 hrs 3,625 learners
You Will Learn How To

- Define the workings of the electromagnetic relay and typ...
- Identify the power contactor, relay chatter, relay reset...
- Explain the principle of electromagnetic rela... Read More

More Info Start Learning

Certificate
Intermediate Level
engineering

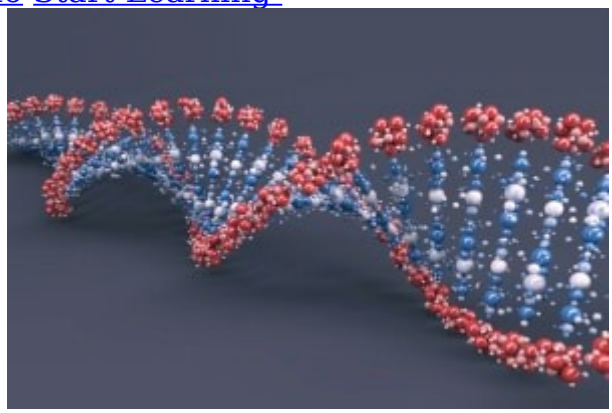
Soil and Water Conservation Engineering - Introduction to Erosion Control Measures

2 - 3 hrs 1,955 learners
You Will Learn How To

- Discuss the general features and adaptability of bunds a...
- Identify the various types of bunds and terraces

- Evaluate the available data for designing soi... Read More

More Info Start Learning



Diploma
Advanced Level
education

Advanced Diploma in Genetic Engineering - Theory and Application

20-30 hrs 3,508 learners
You Will Learn How To

- Explain the concept of biotechnology
- Discuss the important milestones in biotechnology
- List the enzymes involved in molecular clonin... Read More

More Info Start Learning

Diploma
Intermediate Level
engineering

Diploma in Soil and Water Conservation Engineering

10-15 hrs 5,621 learners
You Will Learn How To

- Explain the fundamentals of soil erosion processes
- Discuss soil conservation measures in detail
- Describe how to utilize the available data fo... Read More

More Info Start Learning

Certificate
Advanced Level
Information Technology

Fundamentals of Product Development and Systems Engineering

4-5 hrs 786 learners
You Will Learn How To

- Recognize how product development takes place in a stepw...
- Identify the three different life cycle models to execut...
- Define the Waterfall approach, the iterative-... Read More

More Info Start Learning

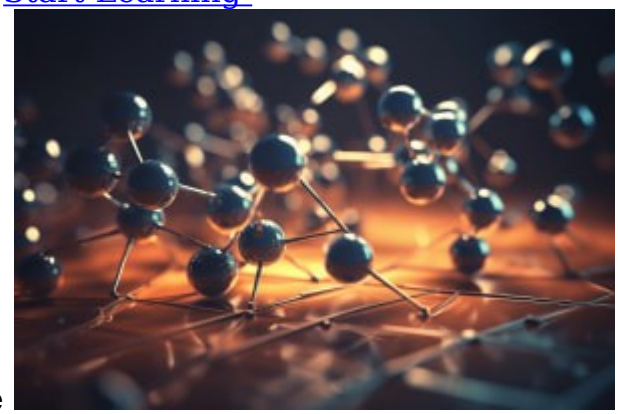
Certificate
Advanced Level
engineering

Principles of Industrial Engineering - Forecasting

3-4 hrs 983 learners
You Will Learn How To

- Define the role of forecasting in industrial engineering
- Explain the principles, techniques and applications of f...
- Outline the methods used for forecasting poss... Read More

More Info Start Learning



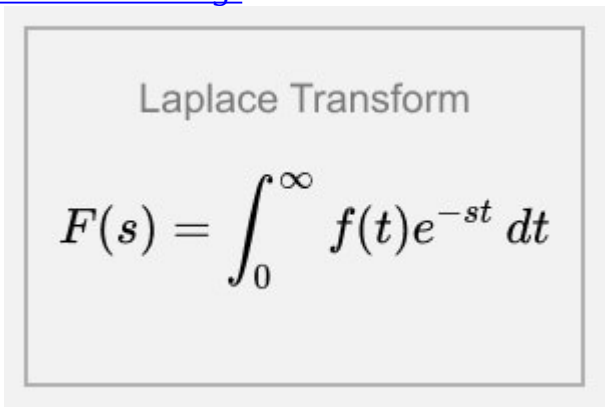
Certificate
Beginner Level
education

Introduction to Material Science

2 - 3 hrs 1,356 learners
You Will Learn How To

- Distinguish between material science and engineering
- Describe two- and three-dimensional crystal lattice syst...
- Explain the crystal structure of crystalline materials
- Recall the energy band structure of solids an... Read More

More Info Start Learning



Certificate
Advanced Level
engineering

Electrical Circuits Laplace Transforms

4-5 hrs 875 learners
You Will Learn How To

- Discuss the two ways to excite first-order circuits.
- Explain the operations of source-fre

Did you mean: diploma electrical engineering?

426 courses

Certificate
Advanced Level
engineering

Production Planning and Control in Industrial Engineering

4-5 hrs 9,257 learners
You Will Learn How To

- Analyze the scope of production control and planning
- Distinguish between production planning and production c...
- Discuss the objectives of material requiremen... Read More

More Info Start Learning

Certificate
Intermediate Level
education

ChatGPT Prompt Engineering: From Beginner to Expert

3-4 hrs 3,940 learners
You Will Learn How To

- Discuss the fundamental principles and best practices of...
- Compare the capabilities and strengths of different vers...
- Select the right words and phrases for your p... Read More

More Info Start Learning

Certificate
Intermediate Level
engineering

Marine Electrical - Electricity Laws and Circuits

4-5 hrs 649 learners
You Will Learn How To

- State the basic laws of electricity
- Discuss energy and power
- Recall Ohm's Law and how it relates to the ba... Read More

More Info Start Learning

Diploma
Intermediate Level
engineering

Diploma in Automotive Systems Training

6-10 hrs 11,691 learners
You Will Learn How To

- Outline the components of the automobile chassis system ...
- Explain the operating principles of a compression igniti...
- List the components and requirements for desi... Read More

More Info Start Learning

Certificate
Advanced Level
engineering

Per Unit Analysis; Single and 3-Phase Systems

6-10 hrs 543 learners
You Will Learn How To

- Describe per-unit and per-phase analysis of power system...
- Outline the normalization process for per unit analysis ...

- Estimate base values of systems including pow... Read More

More Info Start Learning

Certificate
Advanced Level
engineering

Fundamentals of MATLAB and Diffractive Optics in Optical Engineering

4-5 hrs 3,934 learners
You Will Learn How To

- Discuss the concept of Python in optical engineering and...
- Explain the variables of different types of operations o...
- Analyze the interference between two plane wa... Read More

More Info Start Learning

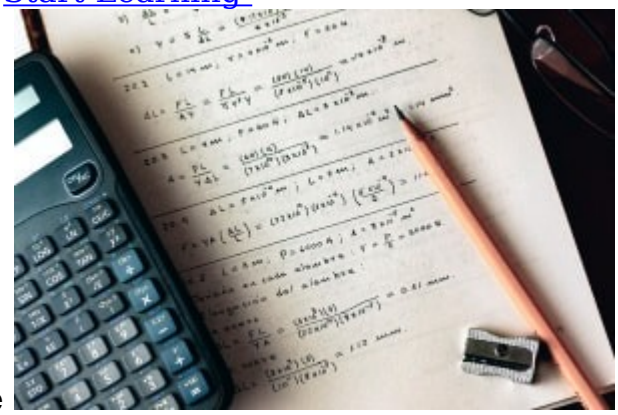
Certificate
Intermediate Level
engineering

Superstructure Activities in Building Construction

4-5 hrs 3,544 learners
You Will Learn How To

- Explain the procedures for placing the starter concrete ...
- Discuss the process for the ground floor beam bottom arr...
- Explain slab centring and placing of beam rei... Read More

More Info Start Learning



Certificate
Beginner Level
engineering

Introduction to Algebra for Engineering

3-4 hrs 1,298 learners
You Will Learn How To

- Define a mathematical system and its properties
- List terms associated with mathematical systems
- Describe a group and its properties Read More

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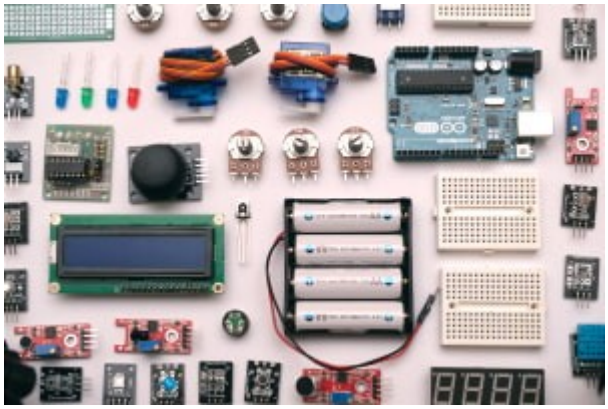
- 193 Countries



Certificate
Beginner Level
engineering

Understanding Microcontroller Interfacing Using Different Elements

4-5 hrs 1,504 learners
You Will Learn How To

- Explain how to embed code to your PIC Microcontroller us...
- Recall how to perform circuit simulations using Proteus ...
- Summarize how to use PICSimlab to run simulat... Read More

More Info Start Learning

Certificate
Beginner Level
engineering

A Practical Guide to Portable Appliance Testing (PAT)

3-4 hrs 6,375 learners
You Will Learn How To

- Evaluate risks associated with electrical appliances
- Categorise electrical appliances based on various factor...

- Identify hazards in commonly used electrical ... Read More

More Info Start Learning

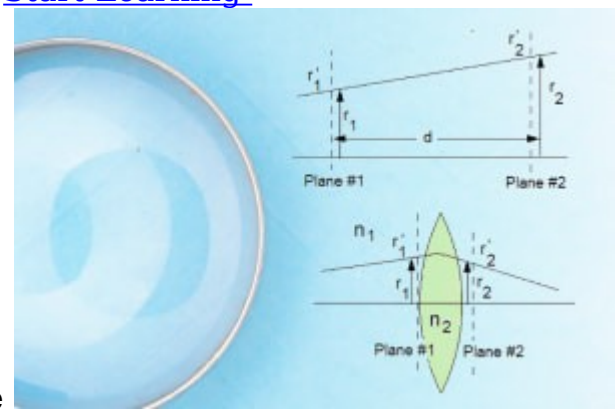
Diploma
Intermediate Level
engineering

Diploma in Biointerface Engineering

10-15 hrs 489 learners
You Will Learn How To

- Outline the historical development of theories about int...
- List the various categories of intermolecular forces
- Describe the relationship between wettability... Read More

More Info Start Learning



Certificate
Advanced Level
engineering

Fundamentals of Ray Tracing Matrix and Principal Planes in Optical Engineering

4-5 hrs 372 learners
You Will Learn How To

- Explain the different techniques of the ray tracing matr...
- Discuss the concept of refraction at a planar boundary a...
- Discuss the ray tracing matrix using reflecti... Read More

More Info Start Learning

Diploma
Advanced Level
engineering

Advanced Diploma in Environmental Geomechanics

15-20 hrs 4,221 learners
You Will Learn How To

- Outline the background and genesis of environmental geom...
- Discuss the scope and importance of environmental geomec...
- Explain the composition and the mechanics of ... Read More

More Info Start Learning

Certificate
Advanced Level
business

Fundamentals of International Diploma in Safety Engineering (IDSE)

2 - 3 hrs 1,603 learners
You Will Learn How To

- Illustrate how a PDCA cycle can help with the implementa...
- List various key processes of an Occupational Health and...
- Discuss the correct way to report an OHSMS pl... Read More

More Info Start Learning

Certificate
Beginner Level
engineering

Introduction to DC Generators

2 - 3 hrs 1,491 learners
You Will Learn How To

- Explain the working principles of DC generators
- Discuss the conversion of an AC generator into a DC gene...
- Describe the construction of DC generators
- Summarize the components of an armature core ... Read More

More Info Start Learning

Certificate
Advanced Level
engineering

Rotating Machinery

6-10 hrs 1,292 learners
You Will Learn How To

- Distinguish between the cross product and the dot produc...
- Define work, energy and power
- Explain and compute torque acting on a loop of wire rota...
- Outline the construction and working of DC ma... Read More

More Info Start Learning

Overwhelmed by career choices? Let us guide you.

Discover the career most suitable for you and get started in the field with a step-by-step plan.

Get Your Plan

Certificate
Beginner Level
education

Introduction to Trigonometry for Engineering

5-6 hrs 1,465 learners
You Will Learn How To

- Identify the basic trigonometric identities
- Define trigonometric identity and solve to prove identit...
- State the formulas for the sine, cosine and t... Read More

More Info Start Learning

Certificate
Advanced Level
engineering

Marine Electronics - Principles of Electricity and Circuit Parameters

3-4 hrs 1,670 learners
You Will Learn How To

- Explain the standard symbols and units used in electroni...
- Discuss the basic science behind electricity
- Describe Electro-Motive Force (EMF) and elect... Read More

More Info Start Learning

Certificate
Advanced Level
engineering

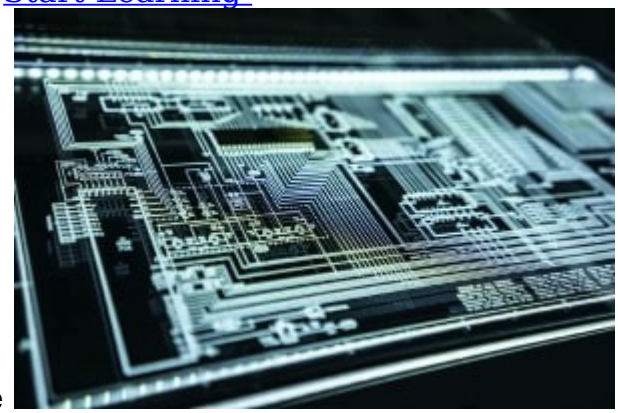
Fundamentals of Solar Radiation and Solar Cells

4-5 hrs 2,011 learners
You Will Learn How To

- Explain the importance of empirical equations for predic...
- List the different correlations developed for estimating...

- Compute the estimated hourly global, beam and... Read More

More Info Start Learning



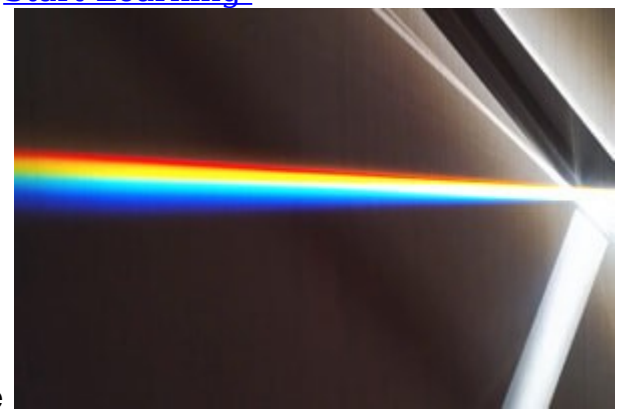
Certificate
Advanced Level
engineering

Beginner in Circuit Analysis

4-5 hrs 1,796 learners
You Will Learn How To

- Analyze the ideal voltage and current sources
- Describe how to convert a current source to a voltage so...
- Outline the effects of the series connection of DC volta...
- Discuss the parallel connection of DC current... Read More

More Info Start Learning



Certificate
Advanced Level
engineering

Fundamentals of Monochromatic and Chromatic Aberrations in Optical Engineering

4-5 hrs 326 learners

You Will Learn How To

- Discuss the processes involved in ray tracing using opti...
- Explain the concept of aberration as well as the compone...
- Define the numerical aperture and its functio... Read More

More Info Start Learning

Certificate
Advanced Level
engineering

Engineering System Design: Modeling Techniques and Simulations

3-4 hrs 2,143 learners
You Will Learn How To

- Identify commonly used methods for modeling.
- Distinguish between the different Relationship Diagrams.
- List the different methods of Data Modeling. Read More

More Info Start Learning

Certificate
Intermediate Level
management

Safety Management in Construction

2 - 3 hrs 6,685 learners
You Will Learn How To

- List the factors that create complex safety challenges w...
- Outline the causes of uncertainty in construction work a...
- Identify the types and expectations of an ade... Read More

More Info Start Learning

Certificate
Intermediate Level
engineering

Marine Electronics - Battery Maintenance and Safety Procedures

4-5 hrs 1,047 learners
You Will Learn How To

- Explain the theory of electrolytic solution
- Analyze secondary cells and their working principles
- Recall internal resistance and polarity of ba... Read More

More Info Start Learning

Top Free Courses For "diplome electrical engineering"

Discover the best resources and courses on diplome electrical engineering - handpicked by experts

Did you mean: diploma electrical engineering?

426 courses

Certificate
Beginner Level
education

Wiring Practice Essentials

3-4 hrs 6,537 learners
You Will Learn How To

- Explain the procedures for removing cable insulation and...
- Identify the type and size of cables for industrial wiri...
- Describe the different types and construction of cable j...
- Explain the procedures to solder copper condu... Read More

More Info Start Learning

Certificate
Intermediate Level
education

Principles of Winding

4-5 hrs 1,769 learners
You Will Learn How To

- Discuss the construction of DC generators
- Outline the terminal identification of a DC compound mot...
- Outline the key tools and materials as well as the proce...
- Analyze the theory, application and the two m... Read More

More Info Start Learning

Certificate
Advanced Level
Information Technology

Arduino Mastery: Code, Circuits & Web Control

2 - 3 hrs 604 learners
You Will Learn How To

- Identify components of the Arduino circuit effectively
- Explain the fundamentals behind the structure of the Ard...
- Recall the skills that are necessary for the ... Read More

More Info Start Learning

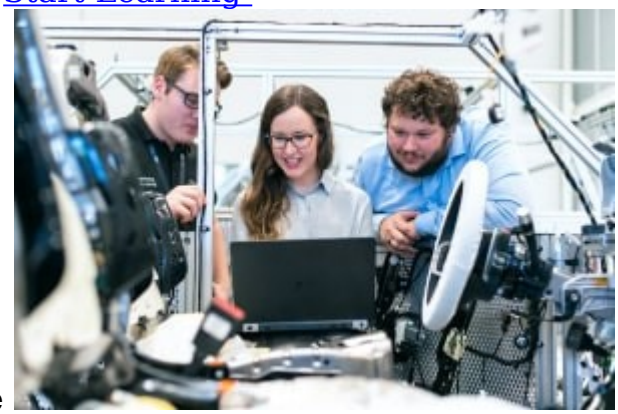
Certificate
Advanced Level
engineering

Design of Electric Vehicle Batteries

6-10 hrs 7,194 learners
You Will Learn How To

- Compute charge-discharge cycles of an electric vehicle's...
- Explain the battery capacity of electric vehicles
- Discuss the concept of depth of discharge Read More

More Info Start Learning



Certificate
Advanced Level
engineering

An Introduction to Mechatronic Systems

2 - 3 hrs 3,993 learners
You Will Learn How To

- Define ‘mechatronics’
- Summarize the basic components of mechatronic systems
- Describe some examples of mechatronic systems Read More

More Info Start Learning

Certificate
Intermediate Level
health

Hazardous Area Classification

2 - 3 hrs 2,493 learners
You Will Learn How To

- Identify and explain the different hazardous zone classi...
- Discuss the temperature classification and group of gase...
- Outline the various types of explosion-proof equipment a...
- Identify and handle ignition sources in hazar... Read More

More Info Start Learning

Certificate
Beginner Level
engineering

Low Voltage Circuit Breaker Designing

2 - 3 hrs 3,401 learners
You Will Learn How To

- Discuss short circuits and overload conditions
- Compare the different types of circuit breakers
- Explain why a circuit breaker has an advantag... Read More

More Info Start Learning

Certificate

Intermediate Level
engineering

Vehicle MET Technician

2 - 3 hrs 5,274 learners
You Will Learn How To

- Assess the career perspectives and day-to-day duties of ...
- Identify the risks involved in a MET technician's work e...
- List the basic precautions and safety measures that a ME...
- Illustrate car chassis and other body panel p... Read More

More Info Start Learning

Rated Excellent on Trustpilot

- 40 Million + Learners
- 8 Million + Graduates
- 193 Countries

Certificate
Beginner Level
management

Maintenance and Control of Electric Motors

2 - 3 hrs 3,547 learners
You Will Learn How To

- Explain the various methods used in controlling an elect...
- Describe the various systems used in starting an electri...
- List the common faults of an electric motor d... Read More

More Info Start Learning

Certificate

Advanced Level
engineering

Engineering System Designs: Qualification Planning & Design Process

3-4 hrs 1,419 learners
You Will Learn How To

- Discuss acceptance strategies
- Summarize what the Auto-link system is.
- Explain the mission of InSeKts. Read More

More Info Start Learning

Diploma
Beginner Level
engineering

Diploma in Sensory Virtual Reality

6-10 hrs 1,778 learners
You Will Learn How To

- Define ‘haptics’
- Explain human haptics

- Discuss the use of kinesthetic devices and sy... Read More

More Info Start Learning

Certificate
Intermediate Level
engineering

Arc Flash Safety-A Practical Guide

2 - 3 hrs 2,505 learners
You Will Learn How To

- Outline the meaning of arc flash, arc blast and electric...
- List and discuss the heat intensity and impact of pressu...
- Describe the effects of arc flash incidents o... Read More

More Info Start Learning

Diploma
Intermediate Level
engineering

Diploma in Biointerface Engineering: Surface Interactions and Modifications

10-15 hrs 500 learners
You Will Learn How To

- Explain the methods used in the characterisation of prot...
- Identify the various therapeutic solutions applied to th...
- Summarise the sequence of the natural respons... Read More

More Info Start Learning

Certificate
Intermediate Level
engineering

Protection and Control: High-Voltage Power Circuits

5-6 hrs 7,627 learners
You Will Learn How To

- Outline the elements of a substation
- Explain high-voltage switch configuration and elements o...
- Describe protection relay schemes, the failur... Read More

More Info Start Learning

Certificate
Advanced Level
engineering

Analysis of Resonant Circuits and Three-Phase Circuits

4-5 hrs 616 learners

You Will Learn How To

- Discuss the resonance condition in the series circuits
- Analyze the resonance condition in parallel circuits
- Outline the importance of resonance in the fi... Read More

More Info Start Learning

Certificate
Beginner Level
engineering

Introduction to DC Motors

3-4 hrs 2,147 learners
You Will Learn How To

- Explain the difference between DC generators and DC moto...
- Define the principle of operation of DC motors
- List the types of DC motors: series, shunt and compound ...
- Describe the characteristics of DC motors Read More

More Info Start Learning

Overwhelmed by career choices? Let us guide you.

Discover the career most suitable for you and get started in the field with a step-by-step plan.

Get Your Plan

Certificate
Intermediate Level
engineering

EV Charging Equipment and Installation Training

2 - 3 hrs 648 learners
You Will Learn How To

- State the reasons why Lithium-ion batteries have been ad...
- Distinguish between the various types of electric vehicl...
- Summarize the working principles of Level 1 a... Read More

More Info Start Learning

Diploma
Intermediate Level
engineering

Diploma in Building Construction Methodology

6-10 hrs 14,325 learners
You Will Learn How To

- List the basic principles and tenets of building constru...
- Differentiate the nominal mix and design mix concrete ty...
- Indicate the practicality and theory of one-w... Read More

More Info Start Learning

Certificate
Beginner Level
engineering

Basics of Electricity: Resistance, Inductance & Capacitance

5-6 hrs 1,699 learners
You Will Learn How To

- Analyze resistors and their combination with series, par...
- Describe capacitors and their combinations with series, ...
- Discuss inductors and their combination with ... Read More

More Info Start Learning

Certificate
Beginner Level
engineering

Series Circuit Rules and Ohm's Law

2 - 3 hrs 2,518 learners
You Will Learn How To

- Define at least five of the basic electrical terms prese...

- List the three Ohm's law formulas
- State the four series circuit rules Read More

More Info Start Learning

Diploma
Intermediate Level
engineering

Diploma in Introduction to Building Construction

6-10 hrs 18,678 learners
You Will Learn How To

- Outline the sequence of a construction project
- Identify the software used for architectural drawing, st...
- Summarize the basics of civil engineering Read More

More Info Start Learning

Certificate
Beginner Level
Information Technology

A Practical Guide to Switchgear Maintenance

4-5 hrs 510 learners
You Will Learn How To

- Identify the different types of switchgears and their di...
- Discuss the different voltage levels of power distributi...
- List the importance of the switchgear in the ... Read More

More Info Start Learning

Certificate
Beginner Level
engineering

Applied Electricity

4-5 hrs 2,446 learners
You Will Learn How To

- Discuss the application of alternate current theory
- Describe the working of AC voltage and alternate and dir...
- Analyze simple continuous periodic waves and their appli...
- Explain phasor representation and phase diffe... Read More

More Info Start Learning

Certificate
Beginner Level
education

Maths for Engineering - Conic Sections and Logarithmic Functions

3-4 hrs 1,308 learners
You Will Learn How To

- Describe how to generate conic sections
- Explain how to derive equations of parabolas with horizo...
- Discuss how to graph parabolas and analyzing ... Read More

More Info Start Learning

- Prev
- 1
- 2
-
- 5
- 6
- 7
-
- 17
- 18
- Next

Did you mean: diploma electrical engineering?

426 courses

Certificate
Advanced Level
engineering

Motors and Controllers for Electric Vehicles

6-10 hrs 9,377 learners
You Will Learn How To

- Define Kirchhoff's first and second law
- Explain the flow of electrical and magnetic energy insid...

- Calculate torque inside a PMDC motor Read More

More Info Start Learning

Certificate
Beginner Level
Information Technology

A Practical Guide to Switchgear Maintenance

4-5 hrs 510 learners
You Will Learn How To

- Identify the different types of switchgears and their di...
- Discuss the different voltage levels of power distributi...
- List the importance of the switchgear in the ... Read More

More Info Start Learning

Certificate
Intermediate Level
engineering

Principles of Cathodic Protection

4-5 hrs 1,710 learners
You Will Learn How To

- Identify the various categories of storage tanks
- Summarize the principles of cathodic protection of engin...
- Discuss the functions of anodes in cathodic p... Read More

More Info Start Learning

Certificate
Beginner Level
engineering

Heat Exchanger Types & Applications

2 - 3 hrs 9,493 learners
You Will Learn How To

- Identify the common types of heat exchangers
- Recognize the pros & cons of each heat exchanger type
- List heat exchanger categories Read More

More Info Start Learning

Certificate
Intermediate Level
engineering

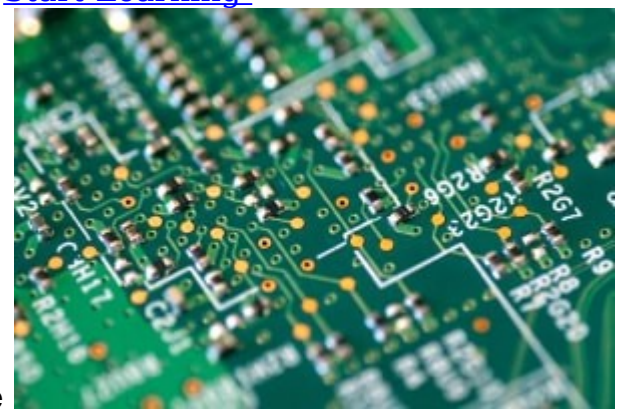
Short Circuit Analysis of a Three-Phase HV System

3-4 hrs 825 learners

You Will Learn How To

- Summarize the need for short circuit analysis
- Outline the benefits of short circuit analysis
- List the various types of electrical faults Read More

More Info Start Learning



Certificate
Advanced Level
engineering

Fundamentals of Circuit Analysis

4-5 hrs 1,463 learners
You Will Learn How To

- Identify how to perform circuit analysis using Laplace t...
- Discuss the concept of transfer functions, and how to fi...
- Explain the importance of the convolution integral and t...
- Discuss the graphical approach to evaluating ... Read More

More Info Start Learning

Certificate
Intermediate Level
engineering

Solar Energy and Photovoltaic System Technologies

3-4 hrs 2,055 learners
You Will Learn How To

- Discuss the initiative made to promote diversity and inc...
- Explain the importance and applications of solar energy
- Identify various components of the solar ener... Read More

More Info Start Learning

Certificate
Beginner Level
engineering

Petroleum Engineering Principles and Concepts

6-10 hrs 4,460 learners
You Will Learn How To

- Define what petroleum is and identify different types of...
- Identify the four hydrocarbon types that make up crude o...
- Recognise reservoir rock properties and speci... Read More

More Info Start Learning

Rated Excellent on Trustpilot

- 40 Million + Learners
- 8 Million + Graduates
- 193 Countries

Certificate
Beginner Level
management

Assured Equipment Grounding Conductor Program (AEGCP) - OSHA

2 - 3 hrs 927 learners
You Will Learn How To

- List the types of equipment needed to implement the prog...
- List the procedures required for the AEGCP
- Apply the examples learned in this course to ... Read More

More Info Start Learning

Certificate
Beginner Level
personal-development

Motorbike Maintenance for Beginners

2 - 3 hrs 9,647 learners
You Will Learn How To

- Identify motorcycle troubleshooting problems
- Contrast the differences between a two-stroke and four-s...

- Describe the safety concerns of a motorcycle Read More

More Info Start Learning

Certificate
Intermediate Level
education

Fundamentals of Workshop Technology

5-6 hrs 2,544 learners
You Will Learn How To

- Explain the operations of marking and measuring tools
- Describe the various procedures involved in wood handlin...
- List out the applications of surface finish a... Read More

More Info Start Learning

Certificate
Beginner Level
engineering

AC Circuits Power Analysis

3-4 hrs 1,091 learners
You Will Learn How To

- Define energy, power and work
- Compare electrical and generic energy, power and work
- Discuss power in reactive circuits
- Recall the trigonometric identities Read More

More Info Start Learning

Diploma
Intermediate Level
engineering

Diploma in Quantity Estimation and Cost Analysis - An Introduction

10-15 hrs 5,932 learners
You Will Learn How To

- Discuss the importance of quantity estimation in a civil...
- Estimate excavation, stone soling, sand filling and PCC ...
- Compute the quantities of materials for footi... Read More

More Info Start Learning

Certificate
Beginner Level
personal-development

Automotive Starting System Diagnosis

2 - 3 hrs 11,305 learners
You Will Learn How To

- State the purpose of the starting system
- Describe the main parts of the starter motor
- Label expected voltage areas by highlighting ... Read More

More Info Start Learning

Certificate
Intermediate Level
engineering

The Finishing Activities in Construction Methodology

3-4 hrs 3,769 learners
You Will Learn How To

- Discuss the finishing activities involved in building co...
- Identify the brick and block types used for erecting bui...
- Describe the process and procedures involved ... Read More

More Info Start Learning

Certificate
Beginner Level
Information Technology

How to Become a Software Engineer

2 - 3 hrs 1,734 learners
You Will Learn How To

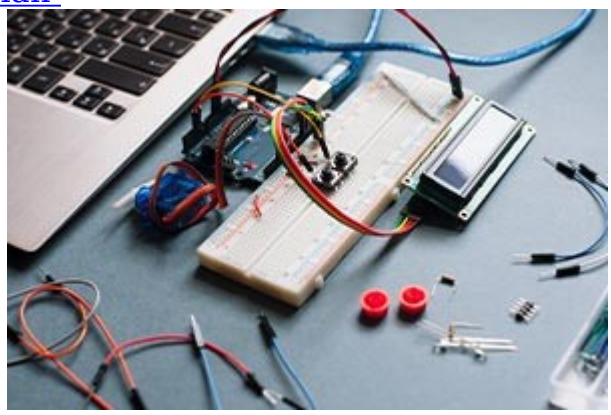
- Distinguish a software engineer from a hobbyist programm...
- List out the different types of software engineers and t...
- Recognize the general responsibilities of a s... Read More

More Info Start Learning

Overwhelmed by career choices? Let us guide you.

Discover the career most suitable for you and get started in the field with a step-by-step plan.

Get Your Plan



Certificate
Beginner Level
Information Technology

A Step-by-Step Guide to Microcontroller Interrupts

3-4 hrs 3,714 learners
You Will Learn How To

- Define an interrupt
- State how to code using MikroC Pro
- Summarize how to design a circuit using Prote... Read More

More Info Start Learning

Certificate
Beginner Level
engineering

Appliance Testing Fundamentals

4-5 hrs 4,364 learners
You Will Learn How To

- Provide a summary of portable appliance testing (PAT)
- Explain the applicable legal provisions regarding PAT
- Describe what risk assessment entails
- Recognise the classification of electrical un... Read More

More Info Start Learning

Certificate
Intermediate Level
engineering

Introduction to Aircraft Design

2 - 3 hrs 15,452 learners
You Will Learn How To

- Discuss the specifications and requirements of aircraft ...
- Distinguish its phases and processes

- Outline the concept and mechanics of the spiral design
- Describe the processes involved in requiremen... Read More

More Info Start Learning

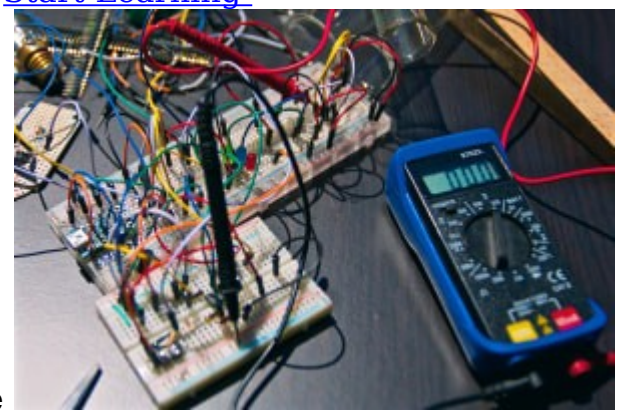
Certificate
Advanced Level
education

Applications of Biotechnology

3-4 hrs 6,197 learners
You Will Learn How To

- Discuss the impact of biotechnology on grafting techniqu...
- Analyze how genetic engineering has aided the control of...
- Explain the procedure for the preparation of culture med...
- Discuss the significance of biotechnology in ... Read More

More Info Start Learning



Certificate
Beginner Level
education

Basics of Electricity and DC Circuit Analysis

2 - 3 hrs 3,556 learners

You Will Learn How To

- State what Ohm’s law is
- Outline what the three key components are and how they a...
- Distinguish between conductors and insulators... Read More

More Info Start Learning

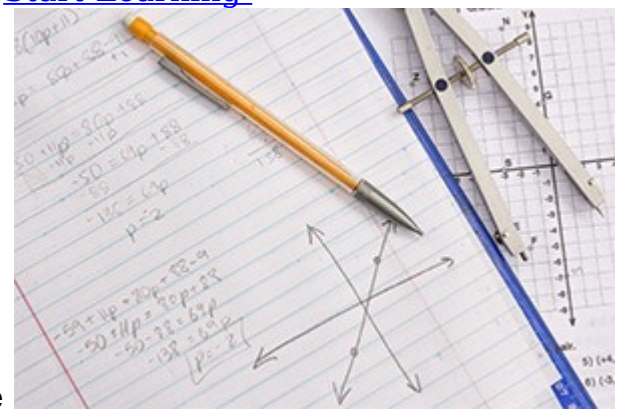
Certificate
Advanced Level
education

Understanding Action Potentials in Neural Networks

3-4 hrs 741 learners
You Will Learn How To

- Define ‘action potentials’ in neural and neuronal networ...
- Explain the function of ion channels in the cell membran...
- Discuss mathematical models for the generatio... Read More

More Info Start Learning



Certificate
Advanced Level
education

CLEP Pre-Calculus: Algebraic Basics

3-4 hrs 1,195 learners
You Will Learn How To

- Discuss how complex numbers are formed from imaginary nu...
- Describe the component parts of complex numbers includin...
- Outline the methods for performing simple to ... Read More

More Info Start Learning

Certificate
Beginner Level
engineering

Beginner AC Motors

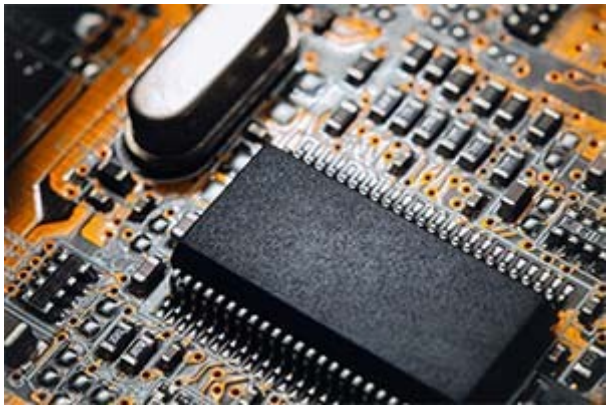
4-5 hrs 3,188 learners
You Will Learn How To

- Explain the various components of a single-phase inducti...
- Describe the starting methods of a single-phase inductio...
- List down the types of connections in a three-phase indu...
- Summarise the load-torque characteristics of ... Read More

More Info Start Learning

Did you mean: diploma electrical engineering?

426 courses

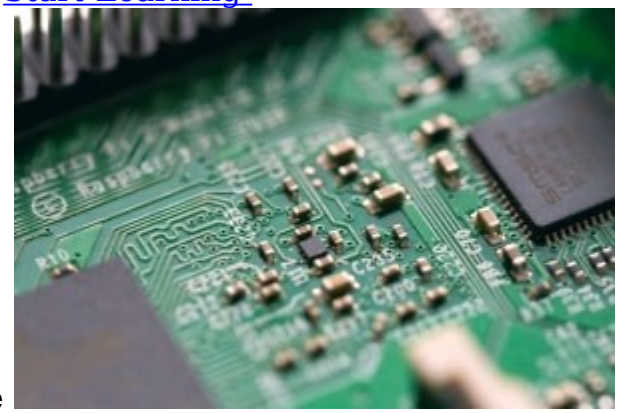
Diploma 
Advanced Level
engineering

Advanced Diploma in Basic Electronics

10-15 hrs 12,011 learners
You Will Learn How To

- Discuss the history of electronics and semiconductor tec...
- Discuss how to derive the most basic form of the BJT sma...
- Discuss the operation of precision half-wave ... Read More

More Info Start Learning

Certificate 
Advanced Level
engineering

Introduction to Basic Electronics

4-5 hrs 19,149 learners
You Will Learn How To

- Discuss the history of electronics and semiconductor tec...
- Explain the principle of superposition and how it applie...
- Recall some useful theorems that are applicab... Read More

More Info Start Learning

Certificate
Beginner Level
engineering

Wind Energy – From Wind Turbines to Grid Integration

2 - 3 hrs 20,297 learners
You Will Learn How To

- Explain how wind is produced by nature
- List the components of a typical horizontal axis wind tu...
- List the types of generators used in wind tur... Read More

More Info Start Learning

Certificate
Intermediate Level
engineering

Introduction to Wind Energy

3-4 hrs 3,728 learners
You Will Learn How To

- Define the concept of 'wind energy capture'
- Explain the pattern of use of wind energy in the world

- Describe the different types of wind turbines
- Analyze the relationship between the power an... Read More

More Info Start Learning

Certificate
Beginner Level
education

Beginner Magnetism

4-5 hrs 1,011 learners
You Will Learn How To

- Distinguish between different types of magnets
- Discuss the properties of magnets
- Explain magnetic flux and magnetic field lines
- Describe the magnetic field of the earth ie g... Read More

More Info Start Learning

Certificate
Intermediate Level
engineering

Process Isolation Standard for Engineers, Operators, and Technicians

2 - 3 hrs 456 learners
You Will Learn How To

- Summarise the requirements for an effective isolation sy...
- Identify the areas in a process plant where process isol...
- Explain mechanical isolation and the steps in... Read More

More Info Start Learning

Certificate
Beginner Level
business

Project Management: The Basics

2 - 3 hrs 13,249 learners
You Will Learn How To

- Analyze status reports containing valuable information a...
- Compute a realistic budget that takes all costs of a pro...
- Define project management and state its three constraint...
- Describe deliverables and why these are impor... Read More

More Info Start Learning

Certificate
Advanced Level
engineering

Basics of Concrete Testing

3-4 hrs 7,598 learners
You Will Learn How To

- Define ‘concrete’
- List the various types of concrete
- Outline the advantages and disadvantages of concrete
- Summarize the properties of concrete in plast... Read More

More Info Start Learning

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- 8 Million + Graduates
- 193 Countries

Certificate
Beginner Level
Information Technology

Introduction to Server Administration Services

2 - 3 hrs 15,624 learners
You Will Learn How To

- Describe name resolutions, like DNS and their importance
- Explain different directory services available for your ...
- Explain how to create and set group policies Read More

More Info Start Learning

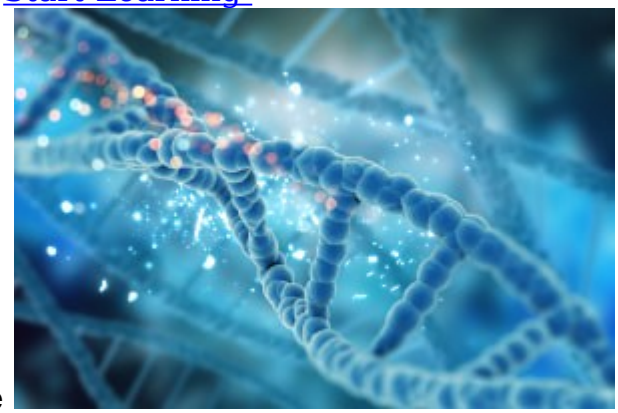
Certificate
Beginner Level
Information Technology

AutoCAD: Beginner to Professional Training

5-6 hrs 57,765 learners
You Will Learn How To

- Explain how to develop basic drawings using an array of ...
- Compare different ways of modifying existing drawings
- List a variety of keyboard shortcuts professi... Read More

More Info Start Learning



Certificate
Advanced Level
education

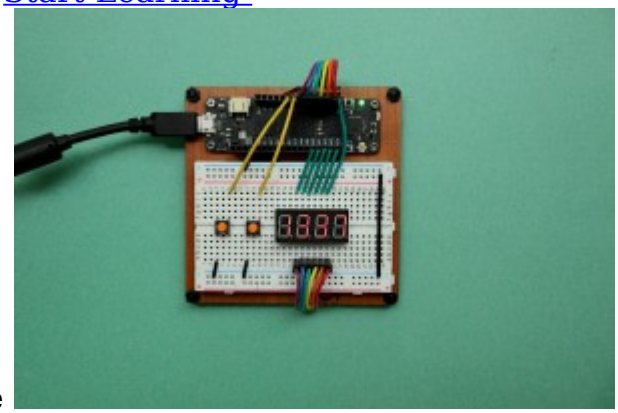
Basics of Molecular Genetics

2 - 3 hrs 2,816 learners
You Will Learn How To

- Discuss the concepts, principles, and applications of mo...
- Explain how genetic information is encoded, replicated,...
- Compare the structure and compositions of DNA and RNA

- Summarise the basics of genes, gene expressio... Read More

More Info Start Learning



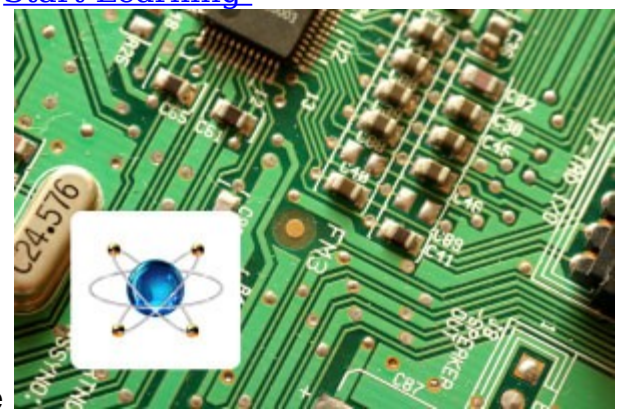
Certificate
Intermediate Level
Information Technology

How to Create Dot Matrix LED Displays with PIC Microcontrollers

2 - 3 hrs 128 learners
You Will Learn How To

- Explain PIC microcontroller wiring and programming
- Define dot matrix basic principles and internal structur...
- List the steps in making a dot matrix LED dis... Read More

More Info Start Learning



Certificate
Intermediate Level
Information Technology

PCB Design Mastery with Proteus

2 - 3 hrs 1,262 learners
You Will Learn How To

- Define critical concepts and terms used in PCB design wi...
- Describe ISIS and ARES functionalities for effective PCB...
- Explain the process of creating schematic diagrams in Pr...
- Identify essential tools and features availab... Read More

More Info Start Learning

Certificate
Intermediate Level
Information Technology

HC-05 Bluetooth Module Interfacing with PIC Microcontroller

2 - 3 hrs 92 learners
You Will Learn How To

- Define the concept of Bluetooth
- Outline the applications of Bluetooth
- Summarise the factors to consider while choos... Read More

More Info Start Learning

Diploma
Advanced Level
education

Diploma in Geometry for General Studies

10-15 hrs 1,262 learners
You Will Learn How To

- Distinguish between conditional and biconditional statem...
- Summarize symbolic logic and congruent triangles
- List the methods for proving triangles congru... Read More

More Info Start Learning

Certificate
Beginner Level
Information Technology

SQL Server 2014: Security Fundamentals

3-4 hrs 3,027 learners
You Will Learn How To

- Describe the reason and importance of storing your data ...
- Explain the importance of security in SQL Server
- Discuss essential security concept and how SQ... Read More

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Get Your Plan

Certificate
Beginner Level
Information Technology

How to Build Your Own Computer

2 - 3 hrs 11,957 learners
You Will Learn How To

- Select the hardware components and parts required for bu...
- Recall the step-by-step procedures for assembling a micr...
- List the peripheral devices that aid the I/O operations ...
- Explain how to install operating systems and ... Read More

More Info Start Learning

Diploma
Intermediate Level
engineering

Diploma in Bar Bending Schedule Mastery

15-20 hrs 1,655 learners
You Will Learn How To

- Estimate the complete cutting length of a footing BBS ma...
- Discuss how to prepare an Excel sheet for your footing B...

- Outline the IS: 2502 guidelines for the bendi... Read More

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tshingombe fiston <tshingombefiston@gmail.com>

Fri, Jul 26, 2024, 2:59 PM

to ALISON,
TSHINGOMBEKB, me

esidential Wiring

Residential electrical system includes an electrical supply, electrical service, nonmetallic-sheathed cable, nail-on device boxes, panel boards, and fixtures.

Phases of residential electrical wiring include rough-in, trim out, testing, and troubleshooting.

2. Commercial Wiring

Electrical installations in commercial structures contain many of the same elements as residential installations. The only difference is that in commercial electrical installations, conductors are typically installed in metal raceways. This aspect of the job requires the electricians installing the devices to be skilled in conduit bending procedures, too.

3. Industrial Wiring

Because of the hazardous materials that exist in many industrial facilities, the installation and maintenance of electrical systems in these volatile environments must follow strict requirements.

Conduit systems in volatile environments must be sealed to outside vapors and gases, and any potential sparking or arcing device must be enclosed within a special enclosure or casing to prevent the ignition of hazardous vapors that might be present. Industrial electricians are generally split into two groups: installers and maintenance personne

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Job Requirements in the Electrical Trade

Click on the tabs to find out more about them:

Residential Electricans

Commercial Electricians

Industrial Electricians

Residential Electricians provide the complete electrical system in a residential structure, keeping in mind the safety precautions. A lack of safety measures may contribute to injury due to shock or fires.

Elements of a residential wiring installation include installing the electrical s

The key points from this module are:

The electrical trade offers many job opportunities to work in residential, commercial, and industrial construction.

Electricians are responsible for the installation and maintenance of electrical systems and equipment.

Electricians working on residential and commercial projects require the same basic set of knowledge and skills. Industrial electricians must know the installation procedure for various types of conduit, large conductors, motors, and controls, as well as possess strong troubleshooting skills.

The electrical wiring system for residential, commercial, and industrial projects varies, and a thorough knowledge of the requirements for each sector is a vital part of the job.

Electricians working with industrial wiring and equipment are also required to know the safety procedures for handling hazardous materials.

ervice entrance equipment, branch circuit conductors, device boxes, panel enclosures, over-current protective devices (circuit breakers), and fixtures such as lighting and smoke detectors.